Santa Clara Valley Water District

Fiscal Year 2013-17
Capital Improvement Plan

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May 15, 2012

Santa Clara Valley
Water District

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OVERVIEW

The Santa Clara Valley Water District's (District) Fiscal Year 2013-17 Five-Year Capital Improvement Program (CIP) is a projection of the District's capital funding for planned capital projects from Fiscal Year 2012/13 through Fiscal Year 2016/17. The purpose of the CIP is to document planned District projects to help integrate District work with the larger community by aligning District planning with other local agency planning efforts.

The District's CIP is developed following the guidelines of Government Code (GC) § 65403 which governs the development and annual review of Capital Improvement Programs developed by special districts in the State of California. State law requires that the program be reviewed and updated annually. It also requires circulation of the document to all agencies having land use authority within the District prior to adoption of the program. This document is intended to provide the information necessary to facilitate planning and construction of water related infrasructure to meet the needs of Santa Clara County.

SANTA CLARA VALLEY WATER DISTRICT

Mission

The mission of the district is to provide for a healthy, safe and enhanced quality of living in Santa Clara County through watershed stewardship and comprehensive management of water resources in a practical, cost-effective and environmentally sensitive manner for current and future generations.

The CIP is prepared in accordance with the guidelines established by the Government Finance Officer Association (GFOA). Capital projects in this document are defined by both the accounting criteria for capital investment and Public Contract Code definition of public works. They exceed $50,000 in cost, have long-term life spans and are generally nonrecurring. They usually fall within one of the following six categories.

1. Acquisition of land for public purpose
2. Construction of a significant facility, i.e. a flood protection facility, a water treatment facility, or a building
3. Addition to or expansion of an existing facility
4. Nonrecurring rehabilitation or major repair to all or part of a facility provided the total cost is more than $50,000
5. Specific planning, engineering study, or design work related to an individual project which falls within the above categories
6. Significant one-time investment in tangible goods of any nature, the benefit of which will accrue over several years. Examples include items such as large initial investments or improvements in technology or the purchase of a new telephone system.

The CIP includes 5 Small Capital Improvement Projects in the various cost centers. These projects will be ongoing and will be used to fund multiple small projects to undertake repairs, replacements, and minor modifications to existing water utility or campus facilities. Small Capital Improvements generally meet the following criteria:

1. Project cost is less than $1.5 million
2. Project can be completed within 2 fiscal years
3. Rights-of-Way acquisition is not required.

The proposed funding for the Water Supply Small Capital Improvement projects is anticipated to vary each year based on the work identified in the Water Utility Asset Management Plan. The Almaden Campus Small Capital Improvements Project is funded at a flat rate of $2 million per year. Unspent funds in these projects will not carry forward from previous years.

There are some miscellaneous capital expenditures incurred by the District that are not captured in the CIP. These capital expenditures include certain components of water purchases, indirect costs to manage and train staff that are fully engaged in capital work, and routine replacement of computers, vehicles and large equipment.

ALIGNMENT WITH ENDS POLICIES

The District plans, manages and carries out capital improvements to comply with the Ends Policies and Executive Limitations established by its Board of Directors. Under the District's Policy Governance Model, Ends Policies describe the outcomes or results to be achieved by District staff. Balancing the Ends Policies are the Executive Limitations, which set limits on staff activities in fulfilling the Ends.

Program plans or master plans are developed to achieve the results established by the Ends Policies and to further define the goals and objectives of each Ends Policy. The Board either formally approves the plans or provides direction to staff, confirming the goals and objectives. These plans then become the basis for staff to propose and develop individual capital projects. Alignment of the CIP with program or master plans provides a direct link to Ends Policies and ensures the District's long-term capital investments are planned and executed according to the Board's priorities. Three Ends Policies directly drive program or master plans and the types of capital improvements described in the CIP.

- Ends Policy E-2 "There is a reliable, clean water supply for current and future generations.
- Ends Policy E-3 "There is a healthy and safe environment for residents, businesses and visitors, as well as for future generations."
  - E-3.1 "Natural flood protection for residents, businesses, and visitors"
  - E-3.2 "Reduced potential for flood damages"
- Ends Policy E-4 "There is water resources stewardship to protect and enhance watersheds and natural resources and to improve the quality of life in Santa Clara County."

(See flowchart "CIP Process Alignment with Ends Policies" on page I-5)

CIP PLANNING PROCESS

The District conducts an annual planning process for its Capital Improvement Program. The purpose of the planning process is to ensure the capital projects included in the CIP:

- meet the Board's priorities and contribute to the objectives of the District's various programs
- have identified funding for the duration of the projects
- are coordinated with the local jurisdiction's General Plans.

The CIP planning process is carried out in accordance with the following Executive Limitations.

- Executive Limitation EL-4.1.1., "The CEO shall not fail to produce an annual Rolling Five-Year Capital Improvement Plan with the first year serving as the adopted capital budget and the remaining years in place as a projected capital funding plan."
- Executive Limitation EL-4.2.1., "The CEO shall not fail to demonstrate to the Board the planned expenditures for the identified and selected capital projects in the Rolling Five-Year Capital Improvement Plan do not deviate materially from the Board's priorities."

The annual CIP process is the responsibility of the CIP Committee comprised of division/office managers, with the responsibility to initiate or implement capital projects. The detailed process is a documented ISO procedure. It includes the following key steps:

- Management review and approval, to ensure staff proposed projects are aligned with Board policies and approved program plans
- Validation of projects to ensure there is a business case for doing the project and that a capital investment is the best solution
- Prioritization of all projects, including continuing and newly proposed projects, to ensure the projects in the CIP reflect Board priorities

- Financial analysis, to determine the capacity of the District's capital funding sources to fund the proposed capital projects
- Outreach to local jurisdictions within Santa Clara County, to coordinate the District's Capital Improvement Program with their General Plans
- Board review and direction at appropriate steps, to ensure the CIP reflects Board policies and priorities
- Board adoption of the CIP plan

The annual CIP planning process takes approximately 10 months to complete. The process starts with collecting information on proposed new capital projects in July, followed by preliminary scoping, priority and financial analyses to produce a Draft CIP in January/February. The Draft CIP serves as a multi-year plan, together with other long-term planning efforts of the District, is the basis for the budget for the following fiscal year. This Draft CIP plan is also reviewed by local jurisdictions for consistency with their General Plans. While the CIP is being reviewed by the cities and County the budget is being reviewed and finalized. The Board concludes the outreach on the CIP with a public hearing. The first year of the CIP is reconciled with the budget and the two documents are presented to the board for formal adoption in April/May.

Board Direction and CIP Outreach

The Board has many opportunities each year to provide direction on projects contained in the Capital Improvement Program. The CIP is developed in parallel with the budget and the water rates. It is presented to the Board on three separate occasions for review and input. Early in the process the criteria and project list are presented to the board so they can provide direction to staff, ensuring that the document is developed in accordance with board priorities.

The direction received is used to develop the Draft CIP which is reviewed and accepted by the Board before staff is authorized to release the document for public review.

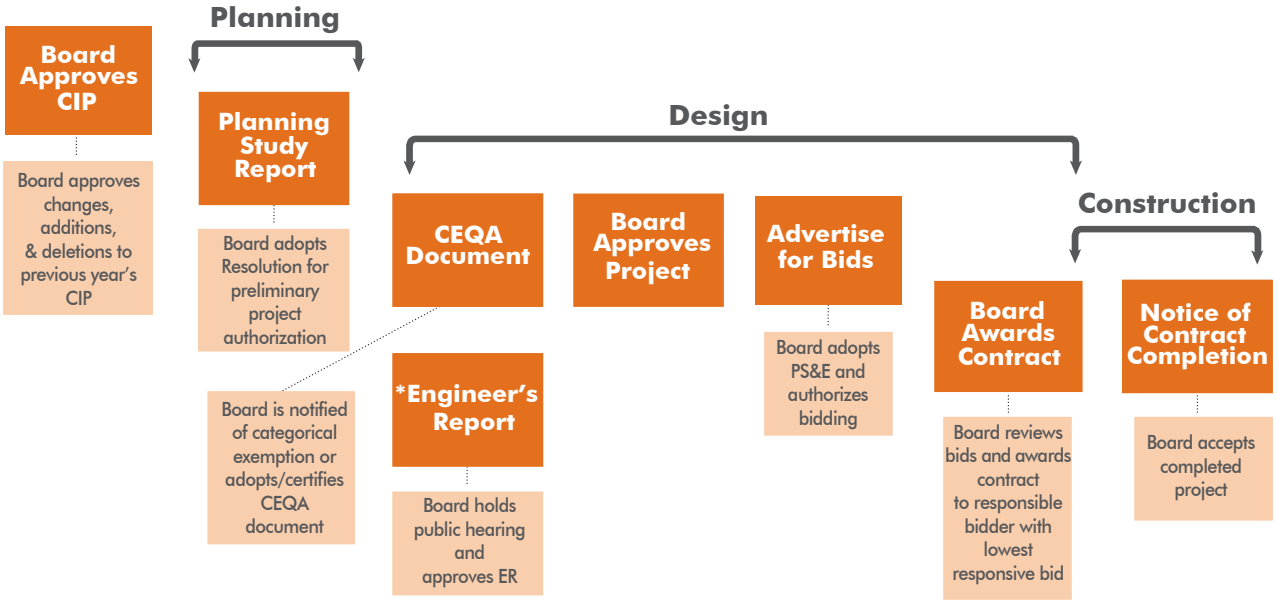
On January 10, 2012 the FY 2013-17 project list and prioritization criteria were reviewed and endorsed by the Board. The following are highlights of changes from the previous year that were approved as the basis for the FY 2013-17 CIP:

- Lower water usage has decreased the revenue available for projects and programs funded by groundwater production charges. A $2 to $4 million revenue shortfall is anticipated in the current budget year, FY 2011/12.
- To fully fund the Water Supply projects in the FY 2013-17 CIP an increase in the groundwater production charges of 9.3% in Zone W-2 (North County) and 3.5% in Zone W-5 (South County) will be required in FY 2012/13.
- Four new projects, Calero and Guadalupe Dams Seismic Retrofits, Penitencia Delivery Main and Force Main Seismic Retrofit, 5-Year Pipeline Rehabilitation, and Winfield Capital Improvements with an estimated to cost of $159 million, will be included in the FY 2013-17 CIP.

Overview

Each project in the CIP goes through a planning phase, design phase and construction phase. The Board may determine to not implement a project based on various considerations such as financial constraints, environmental impacts or community desire during a project's planning or design phases. Approval of a capital project by the Board occurs at the end of the design phase when the Board approves the plans and specifications to solicit bids for construction of the project.

OPPORTUNITIES FOR BOARD DIRECTION ON CAPITAL PROJECTS



** Engineer's Report is required only on projects with zone funding.*

Construction of the storage tank at the Silicon Valley Advanced Water Purification Center

CIP PROCESS ALIGNMENT WITH ENDS POLICIES

Ends Policy E-2
There is a reliable, clean water supply for current and future generations.

Program Plans or Master Plans
- **1990** SCVWD Action Plan for reducing disinfection by-product (Board approved)
- Integrated Water Resource Plan (Board Work Studies)
- **1999** Producer-Wholesaler Agreement for Supply of Recycled Water between SCRWA and the District (Board approved)
- **2004** Santa Clara Valley Water District AssetManagement Program Implementation Plan
- **2005** Urban Water Management Plan (Board approved)
- **2005** Dam Safety Plan
- **2005** Water Infrastructure Reliability Plan
- **2006** South County Water Recycling MasterPlan (Board approved)

FY 2013-2017 CIP
- **40 - Water Supply Capital Projects**

Ends Policy E-3.1 & E-3.2
There is natural flood protection for residents, businesses, and visitors as well as reduced potential for flood damages.

Program Plans or Master Plans
- **1986** Benefit Assessment Program (Board approved)
- **1990** Benefit Assessment Program (Board approved)
- **2000** Clean, Safe Creeks Program (Board approved)
- **2001** Stream Maintenance Program (Board approved)Annual Watershed Facility Inspection Program (for Lower Peninsula, West Valley, Guadalupe, Coyote and Uvas/Llagaswatersheds)
- Feasibility Cost Sharing Agreements with the US Army Corps of Engineers

FY 2013-2017 CIP
- **16 - Flood Protection Capital Projects**

Ends Policy E-4
There is water resources stewardship to protect and enhance watersheds and natural resources and to improve the quality of life in Santa Clara County.

Program Plans or Master Plans
- CEQA commitments
- Regulatory permitting commitments
- Enhancement Program per Clean, Safe Creeks Program (Board approved)
- Enhancement opportunities determined appropriate by the Board
  - Fish and Aquatic Habitat Collaborative Effort
  - Natural Resource Damage Assessment
  - Other

FY 2013-2017 CIP
- **11 - Water Resources Stewardship Projects**

Strategic Support

Program Plans or Master Plans
- **1990** Facilities Master Plan - Site Analysis Report (Board approved)
- **2005** Needs Assessment and Plan Feasibility Study

FY 2013-2017 CIP
- **2 - Buildings and Grounds Capital Projects**

Strategic Support

Program Plans or Master Plans
- **2001** Information System Master Plan
- **2003** Enterprise-wide Master Communication Plan

FY 2013-2017 CIP
- **3 - Information Technology Capital Projects**

CIP Prioritization and Financial Analyses

FISCAL YEAR 2013-17 CIP SUMMARY

The recommended CIP for FY 2013-17 includes 72 priority projects to implement the goals and objectives of the District's program plans and master plans. These projects are grouped into five types of improvements.

- *Water Supply Capital Improvements*
  40 projects contributing to Ends Policy E-2
- *Flood Protection Capital Improvements*
  16 projects contributing to Ends Policy E-3
- *Water Resources Stewardship Capital Improvements*
  11 projects contributing to Ends Policy E-4
- *Buildings and Grounds Capital Improvements*
  2 projects supporting District efforts to achieve the Ends Policies
- *Information Technology Capital Improvements*
  3 projects supporting District efforts to achieve the Ends Policies

Each of the 70 projects in the CIP has an identified funding source based on the type of improvement or function of the project.

The principal sources of revenue for the District are property taxes, a special parcel tax and water production charges for use of groundwater, treated water, and surface water. These revenues are organized into seven funds. Six of the seven funds have a specific purpose and only finance the operational and capital expenditures related to that purpose. In 2008 the Board decided to combine the individual watershed funds into a county-wide watershed and stream stewardship fund to send the message that the watershed activities are managed for the benefit of the county. This also streamlines most tracking and accounting activities for staff. The District continues to receive a small amount of revenue from benefit assessments that were approved by voters in the 80s and 90s. These funds are dedicated to specific watersheds and the accounting practices to ensure that they are spent and accounted for appropriately have been kept in place. As shown in the chart below, four of the seven funds are used to finance the five types of capital improvements in the CIP.

The District aggressively persues external funding to supplement its principal revenue when practical. The passage of the American Recovery and Reinvestment Act (ARRA) by congress in February of 2009 made additional federal funds available for construction of infrastructure projects. Five District projects received partial funding from ARRA.

- $20.6 million for Lower Silver Creek, from I-680 to Lake Cunninham, from the Natural Resource Conservation Service (NRCS), currently in construction
- $12.5 million for Guadalupe River - Downtown, from Interstate 880 to Interstate 280, from the US Army Corps of Engineers (USACE), currently in construction
- $8.1 million for the Silicon Valley Advanced Water Purification Center from the US Bureau of Reclamation (USBR), currently in consturction
- $1.6 million for the South County Recycled Water Pipeline from USBR, consturction completed in 2011
- $866 thousand for the Pond A-8 Advanced Study Project from the California Coastal Conservancy, construction completed in 2011

This chart identifies which types of improvement are associated with each of the District's four capital funds.

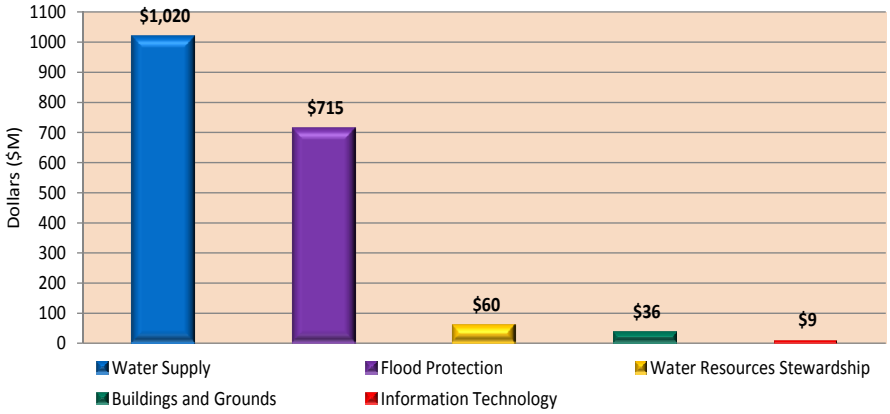
DISTRICT PRIORITIES	District Funds			
Type of Improvement	Water Enterprise Fund	Watershed Stream Stewardship Fund	General Fund	Clean Safe Creeks Funds
Water Supply	●			
Flood Protection		●		●
Water Resources Stewardship	●	●		●
Buildings and Grounds	●		●	
Information Technology	●	●		

The estimated total funding required to implement the 72 projects defined in the CIP is $2.3 billion. The District has been and continues to be successful in leveraging funding for its capital projects through partnerships with federal, state, and local agencies. Of the $2.3 billion total funding, $708 million is expected from the District's various partners, such as the U.S. Army Corps of Engineers (USACE), and $1.609 billion from the District. A list of projects that are funded cooperatively with the District's partners is summarized in Appendix C. Funding from partners for the cooperative capital projects generally come in two ways:

- Funds that are made available by the partners when needed, or
- Funds that are reimbursed by the partners after the District advances the needed funds.

Of the $708 million that is expected from the District's partners, $229 million is advanced by the District and reimbursed later. This $229 million is included in the CIP, and increases the District's total funding requirement from $1.609 billion to $1.838 billion, to ensure that the District has adequate funding to advance the reimbursement.

CIP Funding by Type of Improvement

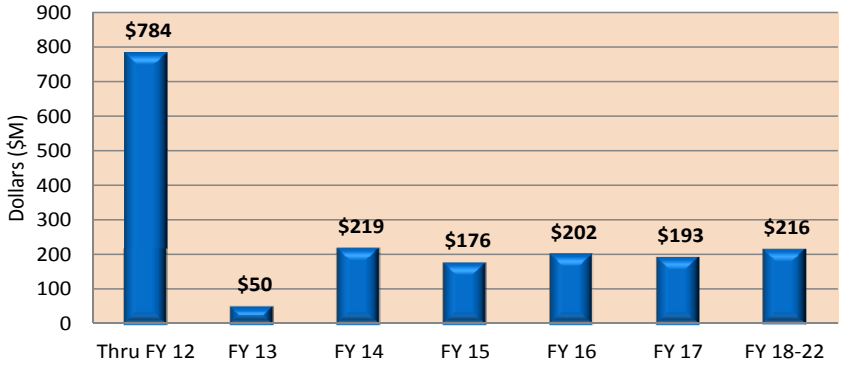


The chart above shows the distribution by type of improvement, of the $1.838 billion total CIP funding as planned in the FY 2013-17 CIP.

The chart above shows how the $1.838 billion to implement the 72 projects is allocated to each of the five Types of Improvements.

Of the $1.838 billion in total funding for the 72 projects identified in the CIP, the Board has appropriated $784 million in prior years (through June 30, 2012 the end of Fiscal Year 2011/12). This year's CIP process identified additional funding needs of $1.055 billion to complete the projects in the CIP, with $50 million allocated in Fiscal Year 2012/13 and a total of $1.005 billion proposed for future years. The table shown on page I-8 breaks down the fiscal year total by the five types of improvement and by applicable funding sources.

CIP Funding Schedule



The chart above shows how the $1.838 billion is distributed by fiscal year.

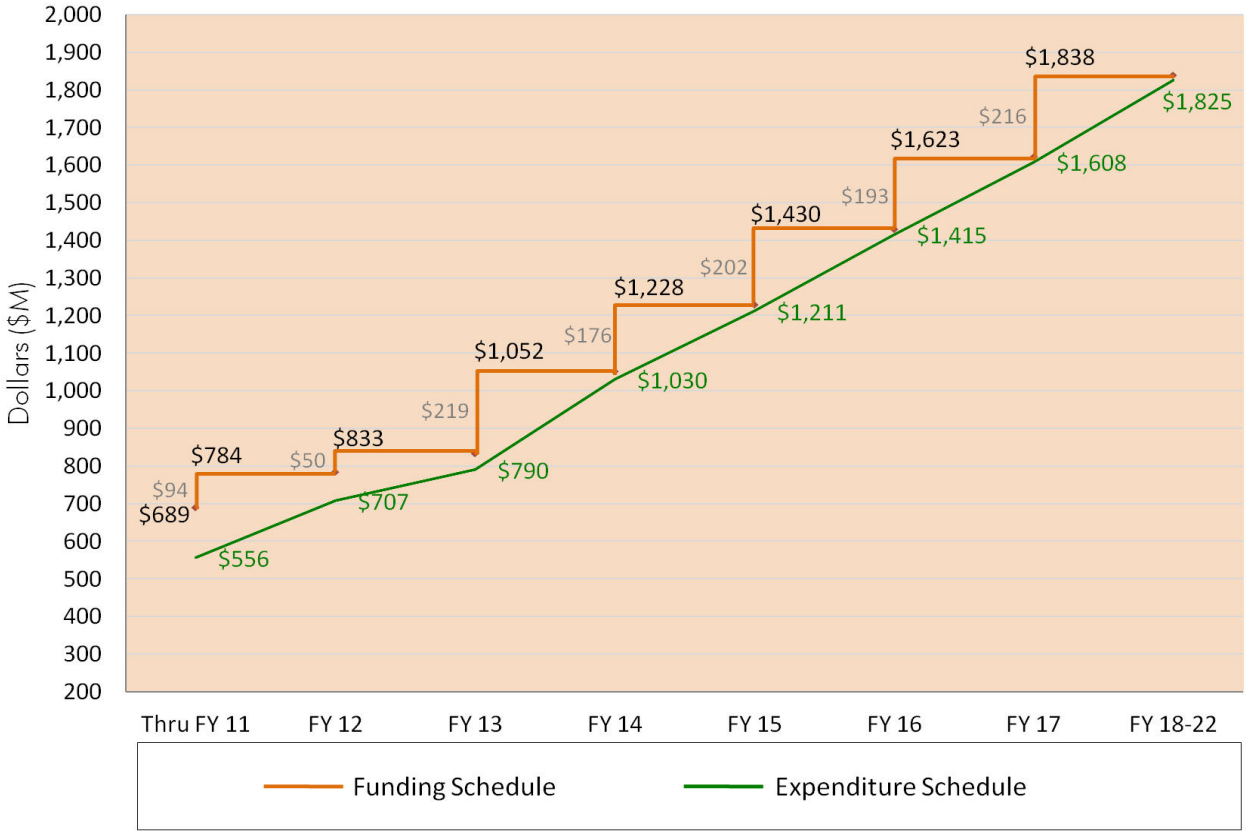
CIP Funding Schedule by Type of Improvement and Funding Sources ($K)

	Through FY11	FY12	FY12 Unspent	FY13	FY14	FY15	FY16	FY17	FY18-22	TOTAL
WATER SUPPLY										
Water Enterprise Fund	225,088	40,471	29,470	30,760	75,240	109,301	170,731	178,651	189,620	1,019,862
Water Supply Total	225,088	40,471	29,470	30,760	75,240	109,301	170,731	178,651	189,620	1,019,862
FLOOD PROTECTION										
Watershed Stream Stewardship Fund	247,318	23,752	6,881	3,464	13,528	1,529	12,338	1,078	971	303,978
Clean, Safe Creeks and Natural Flood Protection Fund	181,655	25,833	33,677	10,572	108,599	61,870	12,137	4,863	5,008	410,537
Flood Protection Total	428,973	49,585	40,558	14,036	122,127	63,399	24,475	5,941	5,979	714,515
WATER RESOURCES STEWARDSHIP										
Water Enterprise Fund	9,289	114	3,122	35	218	85	2,538	5,195	7,130	24,604
Watershed Stream Stewardship Fund	17,039	1,891	2,588	666	10,872	403	1,882	577	460	33,790
Clean, Safe Creeks and Natural Flood Protection Fund	296	363	177	499	-	56	-	-	-	1,214
Mitigation Total	26,624	2,368	5,887	1,200	11,090	544	4,420	5,772	7,590	59,608
BUILDINGS AND GROUNDS										
General Fund	-	2,048	-	3,566	10,091	2,841	2,251	2,319	12,680	35,796
Buildings and Grounds Total	-	2,048	-	3,566	10,091	2,841	2,251	2,319	12,680	35,796
INFORMATION TECHNOLOGY										
Water Enterprise Fund	8,022	-	335	1	150	-	-	-	-	8,174
Watershed Stream Stewardship Fund	341	-	335	-	170	-	-	-	-	510
Information Technology Total	8,363	-	670	1	320	-	-	-	-	8,684
TOTAL	689,048	94,472	76,585	49,563	218,868	176,085	201,877	192,683	215,869	1,838,465
CUMULATIVE TOTAL	689,048	783,520		833,083	1,051,951	1,228,036	1,429,913	1,622,596	1,838,465	

FY 2011/12 Funds to be reappropriated

As shown in the table, CIP Funding Schedule by Type of Improvement and Funding Sources (on the previous page): approximately $77 million of the already appropriated $784 million is not spent and is reappropriated to Fiscal Year 2012/13 for continued use in those same projects in amounts consistent with the project expenditure schedule for Fiscal Year 2012/13. The following chart explains the relationship between the CIP Funding Schedule and Expenditure Schedule.

CIP Funding Schedule vs. CIP Expenditure Schedule



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WATER SUPPLY OVERVIEW

The District manages and operates a complex and integrated water supply infrastructure, including storage, transmission, treatment, and recycled water facilities, to meet the Board's Ends Policy E–2, "There is a reliable, clean water supply for current and future generations."

Storage Facilities

- 10 surface reservoirs
- 393 acres of recharge ponds
- 76 miles of in-stream recharge
- Ground water basins

Transmission Facilities

- 142 miles of pipelines
- 3 pump stations

Treatment Facilities

- 3 treatment plants

Recycled Water Facilities

- South County Recycled Water Distribution System
- South Bay Advanced Treatment Facility

Planning, design and construction of the above facilities took decades of effort. Beginning in the 1930s, reservoirs and recharge ponds were built to halt ground water basin subsidence, followed by pipelines and treatment plants to bring in state and federal water to meet growing water demands in the county.

In the early 1990s, the District embarked on new and challenging capital improvements to upgrade its three drinking water treatment plants in order to meet new Environmental Protection Agency rules for improved water quality required by 1996 amendments to the Safe Drinking Water Act. Fifteen years of effort and capital funding brought the upgrades at Penitencia and Santa Teresa Water Treatment Plants to completion. Delivery of ozonated water produced at these two treatment plants began in 2006.

Water delivered from the Rinconada plant continues to meet the stricter water quality standards even though the plant was built in the 1960's and is showing its age. The Rinconada Water Treatment Plant (RWTP) Reliability Improvement project will provide some major improvements for future reliability. The facility renewal program (FRP) for RWTP that was started in FY 2008/09 is continuing with two individual capital projects and $938 thousand planned expenditures in FY 2012/13. The CIP includes a total investment of $243 million for improvements at RWTP.

With a significant portion of the Water Supply infrastructure approaching forty to fifty years of age, maintaining and upgrading the existing infrastructure to ensure each facility functions as intended for its useful life became the focus of the Water Supply Capital Improvement Program in recent years, as shown in the CIP.

The District owns and operates ten major dams. While these dams provide water conservation, flood management, recreation, and environmental flow benefits, there are consequences and costs for dam ownership. Knowledge of seismic stability design and construction was very rudimentary during the design and construction of District dams in the 1930's and 50's. Both liquefaction of dam embankments and foundations and embankment stability is critical for seismic stability. Several of the District reservoirs have operating restrictions imposed by the Department of Dam Safety (DSOD) while an engineering analysis of how the District's dams would perform under a major seismic event is completed and appropriate corrective actions are implemented.

On November 26, 2010 the Board was informed that Anderson Dam will require a seismic retrofit and that the operating restriction was increased to 37 feet below the spillway. Since this briefing, the consultant has completed the additional estimate of deformation; it appears that the deformation (settlement) of the dam crest may be 25 feet. The Anderson Dam Seismic Retrofit Project ($126 million) was added to the CIP in January 2011 with a Budget Adjustment of $682,960 for FY 2010/11 to fund staff labor costs for the initial project work.

The District began its seismic stability evaluation of Almaden, Calero and Guadalupe Dams in September 2009. The January 4, 2011 Dam Safety Program update to the Board noted that the alluvial material under a portion of Calero Dam could liquefy, and as a result it is possible that the dam will be found to have inadequate seismic stability. Although the preliminary seismic stability analysis will not be completed until fall 2011, the Districts consultant has recommended an interim operating restriction of between 10-15 feet beyond the current operating restriction for Calero Reservoir.

Major Capital Improvements Identified in CIP

Storage:

- Dam Safety Program Seismic Stability
- Pacheco Pumping Plant ASD Replacement
- Almaden Dam Outlet Works Improvement
- Anderson Dam Seismic Retrofit

Transmission:

- Almaden-Calero Canal Rehabilitation
- Main and Madrone Avenue Pipelines Restoration
- Stevens Creek-Vasona Raw Water Distribution
- IRP2 Additional Line Valves

Treatment:

- IRP2 Seismic Study and Retrofit of Water Treatment Plants and Operations Buildings
- Rinconada Water Treatment Plant Facility Renewal Program (four projects)
- RWTP Reliability Improvement
- IRP2 Well Fields

Recycled Water:

- South Bay Advanced Water Treatment Facility
- Recycled Water Masterplan - Gilroy Pipelines and Reservoirs

PRIORITY PROCESS AND FINANCIAL ANALYSIS

A rigorous priority setting process was conducted to ensure that the new water supply projects proposed to be added to the Fiscal Year 2012/13 CIP reflect the Board's priorities. The priority criteria used to evaluate these projects is included in Appendix A.

A financial analysis of the Water Enterprise Fund, the funding source for water supply capital improvements, was performed to determine the limitations to funding the projects proposed for the Fiscal Year 2012/13 capital program. Results of this year's prioritization process and financial analysis are summarized in Appendix B.

Based on the feedback from the FY 2006-07 CIP and Board direction, a concerted effort was made to develop a multi-year water charge structure that would support the priority work of the water utility business. Staff analyzed both immediate requirements and anticipated future needs to support operations and the continued appropriations for capital investment needed to maintain infrastructure and comply with water quality regulations. Each year staff reviews Board priorities, the financial needs of the water utility enterprise fund, current political and economic factors and updates the multi-year structure. The rate structure for the first year is recommended to the Board for adoption during the annual rate setting process.

While the District has one Water Utility fund, the District has two zones of benefit for the purposes of setting groundwater production charges. The North County Zone is very different from the South County zone in that the water infrastructure is substantially separate and distinct with an entirely different cost of providing service. For example the North zone overlays the Santa Clara groundwater subbasin and is much more densely populated requiring a large amount of imported water from outside the county to provide a reliable water supply. To receive, filter and distribute the imported water, the District chose to build 3 water treatment plants and a network of raw water and treated water distribution pipelines many decades ago. The South zone on the other hand overlays the Coyote and Llagas groundwater subbasins and is more sparsely populated. South County relies primarily on groundwater to serve roughly 50% agricultural and 50% non-agricultural water needs. A small amount of recycled water is served in the Gilroy area. No treated water is served in South County. A small amount of imported water is used to recharge the groundwater

subbasins in the South County. The groundwater subbasins have the ability to absorb the recharge and remain healthy at current water usage levels unlike the North County where several sections of the groundwater basin are very sensitive, which is the main reason for building the treatment plant system long ago.

Three years of flat water charge rates and significant reduction in water sales has resulted in an estimated $2 to $4 million revenue shortfall in the FY 2011/12 budget year. To fully fund the Water Supply projects in the FY 2013-17 CIP an increase in the groundwater production charges of 9.3% in Zone W-2 (North County) and 3.5% in Zone W-5 (South County) will be required in FY 2012/13. Preliminary projection indicate the need for annual rate increases in subsequent years ranging from 9% to 10% for North County and 3% to 4% for South County. Reducing or removing capital projects will not impact the need to increase groundwater production charges FY 2012/13. Reducing capital outlays in future years by delaying or de-scoping capital projects would reduce the projected level of rate increases.

The Water Utility capital program is scheduled to recieve $9.6 million in ARRA funds from the US Bureau of Reclamation, $8.1 million for the Silicon Valley Advanced Water Purification Center and $1.6 million for the South County Recycled Water Pipeline, Short-Term Implementation.

The majority of capital projects included in the 5-Year CIP are related to asset management which replaces aging equipment and facilities, or infrastructure reliability, which protects the county's baseline water supply.

The District is currently engaged in several critical studies related to understanding the conditions of various existing water supply facilities and meeting future water supply needs of the county. These studies, such as Water Supply and Infrastructure Master Plan or San Luis Low Point Improvement Project, will likely identify a number of new capital projects with significant capital investments. Following is a preliminary list of projects identified by these studies:

- Potential Dam Retrofit or Upgrade Projects
- San Luis Low Point Solution ($141M)
- Construct Diversion to Maximize Recharge Capability at Church Avenue ($4M)
- Long Term South County Recycled Water Facility Expansion Project ($8M)
- Possible new South County Recharge Ponds ($40M)

Water Supply Capital Improvements

The following table is a project funding schedule for water supply capital improvements resulting from this year's priority process and financial analysis. Detailed information for each project can be found in this document on the following pages in the order presented in this table. The chart also identifies partially funded projects and estimated unspent appropriation from FY 2011/12.

Water Supply Capital Improvements

Project Number	PROJECT NAME	Through FY11	FY12	FY12 Unspent	FY13	FY14	FY15	FY16	FY17	FY18-22	TOTAL
	STORAGE FACILITY										
91854001	Almaden Dam Improvements	2,103	250	-	802	1,126	12,394	201	-	-	16,876
91864005	Anderson Dam Seismic Retrofit	683	8,791	810	1,007	12,931	15,429	74,396	75,932	1,563	190,732
91084020	Calero and Guadalupe Dams Seismic Retrofits	-	-	-	2,170	3,457	4,080	12,175	16,342	81,010	119,234
91084019	Dam Safety Program Seismic Stability	6,669	2,816	1,935	613	259	-	-	-	-	10,357
91904005	Lenihan Dam Outlet Modifications	56,356	-	104	-	-	-	-	-	-	56,356
91954001	Pacheco Pumping Plant ASD Replacement	17,518	826	1	1,003	292	-	-	-	-	19,639
91214007	San Luis Reservoir Low Point Improvement - Planning	15,235	-	1,239	12	-	-	-	-	-	15,247
91124001	San Tomas Well Field	12,474	-	115	-	-	-	-	-	-	12,474
91214010s	Small Capital Improvements, San Felipe Reach 1-3	n/a	2,403	-	1,639	3,986	2,249	2,386	2,530	15,135	30,328
	TRANSMISSION FACILITY										
95084001	5-Year Pipeline Rehabilitation	0	-	-	4,133	3,514	6,414	4,027	4,956	-	23,044
92404003	Alamitos Diversion Dam Improvements	2,962	-	2,125	-	-	-	-	-	505	3,467
92C40310	Cathodic Protection of USBR-Owned Pipelines	-	-	-	-	504	478	3,950	-	-	4,932
92484003	Coyote Diversion Dam Improvements	709	-	389	-	-	-	-	679	1,295	2,683
94C40220	IRP2 Additional Line Valves	-	-	-	-	-	710	878	6,861	-	8,449
92374005	IRP2 Backup Raw Water Control Center at Almaden	-	-	-	-	39	129	828	659	-	1,655
92534003	Kirk Diversion Dam & Fish Screen Improvements	3,196	-	1,691	-	405	-	-	-	-	3,601
92144001	Pacheco/Santa Clara Conduit Right of Way Acquisition	366	487	1	702	738	158	-	-	-	2,451
94384002s	Penitencia Delivery Main/Force Main Seismic Retrofit	-	-	-	566	636	5,464	-	-	-	6,666
95144001	Pipeline Hydraulic Reliability Upgrades (Planning)	136	139	90	-	-	-	-	-	-	275
92764009	Small Capital Improvements, Raw Water Transmission	n/a	1,079	-	719	656	675	696	716	3,918	8,459
94764006	Small Capital Improvements, Treated Water Transmissi	n/a	-	-	998	1,086	1,080	1,112	1,145	6,264	11,685
92764010	Stevens Creek Supplemental Water	438	-	377	-	-	-	119	1,313	33,993	35,863
	TREATMENT FACILITY										
93764003	IRP2 Seismic Study and Retrofit of WTP Ops Bldg	4,314	-	2,726	-	10,549	1,113	-	-	-	15,976
93504001	IRP2 Well Fields	79	124	-	115	408	1,257	1,126	6,376	12,358	21,843
93234043	PWTP Clearwell Recoating & Repair	1,003	405	776	186	2,833	33	-	-	-	4,460
93234031	PWTP Maintenance Building	5,697	-	616	-	-	-	-	-	-	5,697
93C40199	PWTP Washwater Clarification Facility	-	-	-	-	-	-	524	621	6,783	7,928
93234042	PWTP Water Pumps Modification	2,745	-	2,434	-	386	368	119	-	-	3,618
93C40115	RWTP BL-1 Valve & Vault Replacement	-	-	-	-	-	244	1,145	115	-	1,504
93294054	RWTP FRP Primary Electrical System Improvement	5,428	142	35	264	-	-	-	-	-	5,834
93294051	RWTP FRP Residuals Management Modifications	3,154	426	328	311	16,306	973	146	-	-	21,316
93294057	RWTP Reliability Improvement	2,456	321	703	8,505	8,477	52,637	57,536	58,091	18,574	206,597
93294035	RWTP Standby Power System Upgrade	1,913	185	85	127	-	-	-	-	-	2,225

FY 2011/12 Funds to be reappropriated

Water Supply Capital Improvements ($K) (cont'd)

Project Number	PROJECT NAME	Through FY11	FY12	FY12 Unspent	FY13	FY14	FY15	FY16	FY17	FY18-22	TOTAL
	TREATMENT FACILITY cont'd										
93294056	RWTP Treated Water Valvels Upgrade	978	99	290	395	3,156	546	28	-	-	5,202
93764004	Small Capital Improvements, Water Treatment	n/a	1,148	-	1,065	1,408	1,417	1,460	1,504	8,222	16,224
93284030	STWTP Incompatible Materials	7,851	1,559	-	3,014	359	-	-	-	-	12,783
94084005	Water Protection	7,599	131	5,524	-	-	-	-	-	-	7,730
93084009	WTP I/O Cards & Trunk Cable Upgrades	5,286	-	778	-	-	-	-	-	-	5,286
	RECYCLED WATER FACILITY										
91184008	Silicon Valley Advanced Water Purification Center	44,330	18,425	841	1,461	318	-	-	-	-	64,534
91094007s	South County Recycled Water Pipeline	13,410	715	5,457	953	1,411	1,453	7,879	811	-	26,632
	TOTAL	225,088	40,471	29,470	30,760	75,240	109,301	170,731	178,651	189,620	1,019,862

The following table shows funding requirements from each funding source for water supply capital.

Water Supply - Funding Source ($K)

Project Number	PROJECT NAME	Through FY11	FY12	FY12 Unspent	FY13	FY14	FY15	FY16	FY17	FY18-22	TOTAL
	Water Enterprise Fund	225,088	40,471	29,470	30,760	75,240	109,301	170,731	178,651	189,620	1,019,862
	TOTAL	225,088	40,471	29,470	30,760	75,240	109,301	170,731	178,651	189,620	1,019,862

FY 2011/12 Funds to be reappropriated

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Project	**Almaden Dam Improvements**
Program	Water Supply – Storage
Priority No.	40
Project No.	91854001
District Contact	Katherine Oven koven@valleywater.org

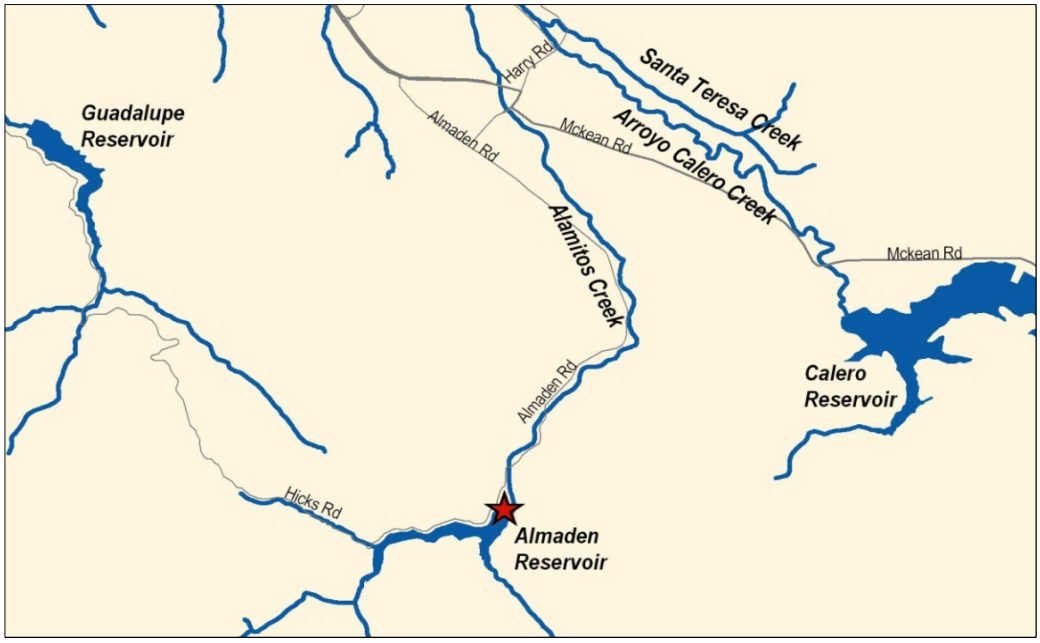
Aerial view of Almaden Dam and spillway, with a portion of the reservoir

PROJECT DESCRIPTION

This project plans, designs, and constructs improvements to the Almaden Dam Outlet Works to accomplish the following objectives:

- Modify or construct a new intake structure, capable of releasing 246 cfs of water without flushing of sediments through the outlet works.
- Correct existing problems with the outlet energy dissipation structure, piping and valves.

PROJECT LOCATION

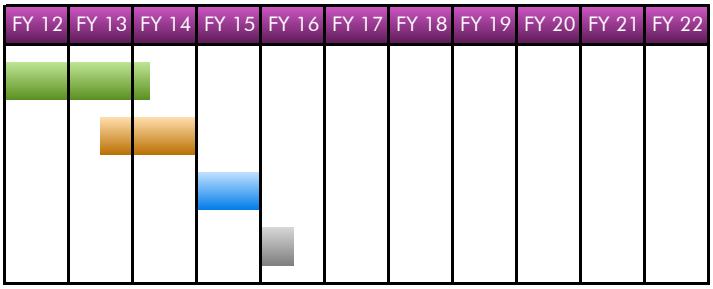


★ Project Location

SCHEDULE & STATUS

October 2000 to December 2015

Phase	Cost
Plan	3,055
Design	1,161
Construct	11,342
Closeout	179
	15,737



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY11	FY12	FY13	FY14	FY15	FY16	FY17	Future	
91854001-Almaden Dam Improvements	2,103	250	802	1,061	11,342	179	0	0	15,737
with inflation	2,103	250	802	1,126	12,394	201	0	0	16,876

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY11	FY12		FY13	FY14	FY15	FY16	FY17	Future	
91854001-Almaden Dam Improvements	2,103	250	0	802	1,126	12,394	201	0	0	16,876

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	16,876
Other Funding Source	0
Total	16,876

OPERATING COST IMPACTS

The completion of this project is anticipated to decrease operating costs by approximately $2,000 per year, beginning in FY 2017. Manually flushing the control valves during the winter months to remove silt will no longer be required.

USEFUL LIFE: 50+ Years

Project	**Anderson Dam Seismic Retrofit**
Program	Water Supply – Storage
Priority No.	97
Project No.	91864005
District Contact	Frank Maitski fmaitski@valleywater.org

Field exploration for seismic stability evaluations

PROJECT DESCRIPTION

This project plans, designs, and constructs seismic retrofit or replacement of outlet works at Anderson Dam, pending completion of a field investigation that will determine whether the Coyote Fault is determined to be "active." Seismic stability improvements will accomplish the following objectives:

- Resolve seismic stability deficiencies to ensure public safety.
- Restore lost reservoir storage capacity resulting from the operational restriction issued by Division of Safety of Dams (DSOD).
- Resolve the DSOD/FERC (Federal Energy Regulatory Commission) requirements in a timely manner.

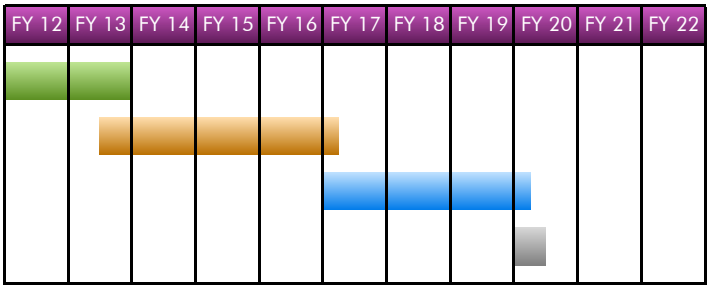
PROJECT LOCATION

★ Project Location

SCHEDULE & STATUS

January 2011 to October 2019

Phase	Cost
Plan	10,636
Design	14,700
Construct	####
Closeout	200
	169,636



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures						Total
Project	FY11	FY12	FY13	FY14	FY15	FY16	FY17	Future	
91864005-Anderson Dam Seismic Retrofit	269	8,395	876	13,076	14,120	66,100	65,500	1,300	169,636
with inflation	269	8,395	876	13,872	15,429	74,396	75,932	1,563	190,733

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests					Total
Project	FY11	FY12		FY13	FY14	FY15	FY16	FY17	Future	
91864005-Anderson Dam Seismic Retrofit	683	8,791	810	1,007	12,931	15,429	74,396	75,932	1,563	190,733

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	190,733
Other Funding Source	0
Total	190,733

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs, as the project does not significantly alter the existing facilities or modes of operation.

USEFUL LIFE: 50+ Years

Project	**Calero and Guadalupe Dams Seismic Retrofits**
Program	Water Supply – Storage
Priority No.	92
Project No.	91084020
District Contact	Katherine Oven koven@valleywater.org

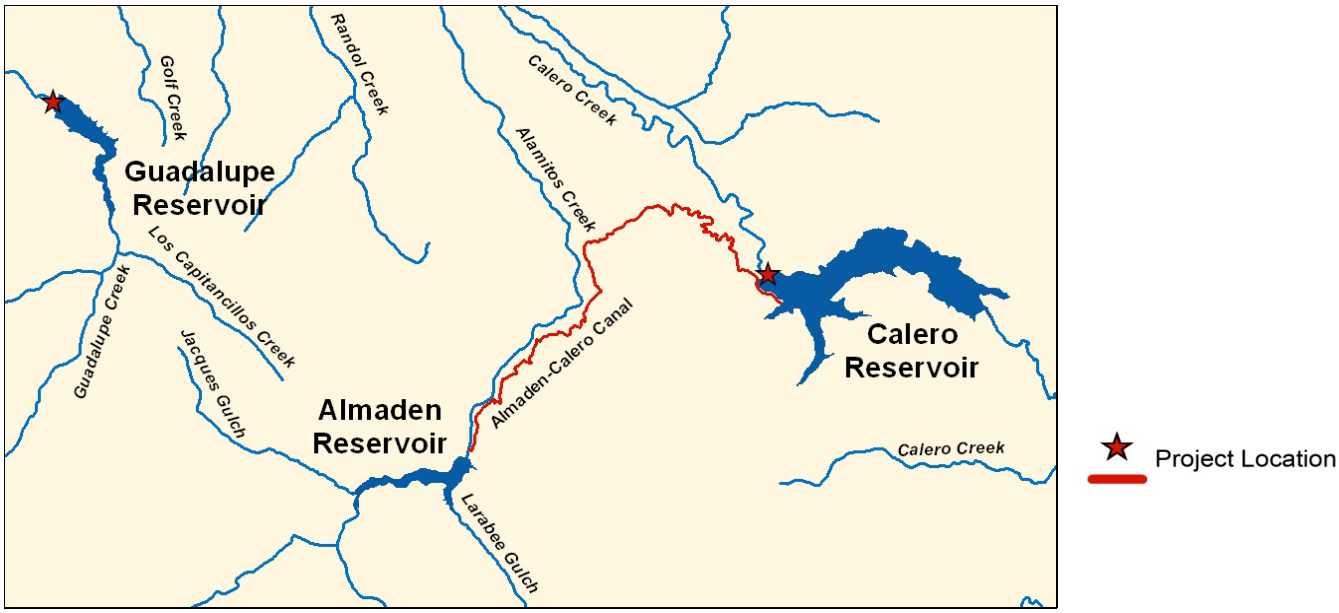
Aerial view of the Calero Dam and reservoir

PROJECT DESCRIPTION

This project plans, designs, and constructs improvements to the Calero and Guadalupe Dams, and the Almaden-Calero Canal to accomplish the following objectives:

- Stabilize the Calero and Guadalupe Dams' embankments for the maximum credible earthquake, possibly modify or replace the outlet works, and possibly modify the spillway to increase freeboard during a PMF event
- Restore operational capacity to the Almaden-Calero Canal and stabilize and improve maintenance access.
- Modify Fellows Dike to optimize the water utility benefits of Calero Reservoir in a cost-effective manner while considering stakeholder interests consistent with District policies

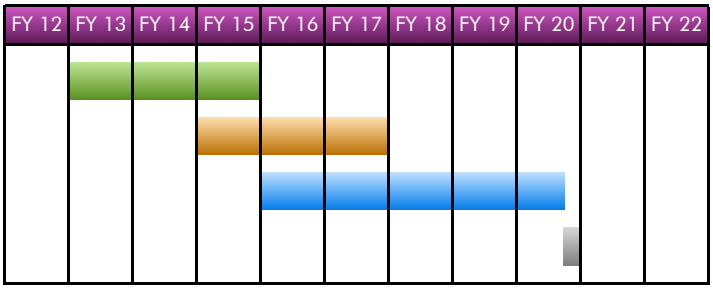
PROJECT LOCATION



SCHEDULE & STATUS

July 2012 to June 2020

Phase	Cost
Plan	7,145
Design	7,233
Construct	84,593
Closeout	482
	99,453



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY11	FY12	FY13	FY14	FY15	FY16	FY17	Future	
91084020-Calero and Guadalupe Dams Seismic Retrofits	0	0	2,170	3,259	3,734	10,817	14,097	65,376	99,453
with inflation	0	0	2,170	3,457	4,080	12,175	16,342	81,011	119,235

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY11	FY12		FY13	FY14	FY15	FY16	FY17	Future	
91084020-Calero and Guadalupe Dams Seismic Retrofits	0	0	0	2,170	3,457	4,080	12,175	16,342	81,011	119,235

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	119,235
Other Funding Source	0
Total	119,235

OPERATING COST IMPACTS

Operating cost impacts are anticipated and will be determined during the planning phase.

USEFUL LIFE: Not Available

Project	**Dam Safety Seismic Stability**
Program	Water Supply – Storage
Priority No.	100
Project No.	91084019
District Contact	Frank Maitski fmaitski@valleywater.org

Field exploration for seismic stability evaluations

PROJECT DESCRIPTION

This project conducts preliminary planning (seismic stability evaluation) for 7 dams (shown on the map) to accomplish the following objectives:

- Address seismic stability issues.
- Provide for public safety.
- Ensure operational availability of reservoirs.
- Address protection of the assets.

Site specific planning, design, and construction of dam seismic stability improvements at up to eight District dams (identified on the map) will be funded separately. This project funds preliminary planning (seismic stability evaluation, to determine the need for seismic stability improvements) for seven dams. The seismic stability evaluation for Anderson Dam is funded under 91081007 Dam Safety Program in the operations budget. A separate capital project (91864005) is funding the seismic remediation of Anderson Dam. The scope, schedule, costs, and funding sources for the remaining dams will be determined upon completion of the seismic stability evaluation.

PROJECT LOCATION

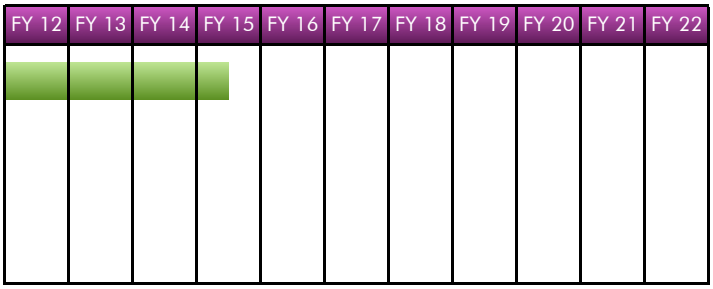
★ Project Location

SCHEDULE & STATUS

August 2009 to December 2014

(Planning Phase Only)

Phase	Cost
Plan	9,510
Design	-
Construct	-
Closeout	-
	9,510



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures						Total
Project	FY11	FY12	FY13	FY14	FY15	FY16	FY17	Future	
91084019-Dam Safety Seismic Stability	6,714	836	2,548	244	0	0	0	0	10,342
with inflation	6,714	836	2,548	259	0	0	0	0	10,357

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests					Total
Project	FY11	FY12		FY13	FY14	FY15	FY16	FY17	Future	
91084019-Dam Safety Seismic Stability	6,669	2,816	1,935	613	259	0	0	0	0	10,357

Adjusted Budget includes adopted budget plus approved budget adjustments

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	10,357
Other Funding Source	0
Total	10,357

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs, as the project does not significantly alter the existing facilities or modes of operation.

USEFUL LIFE: 50+ Years

Project	**Lenihan Dam Outlet Modifications**
Program	Water Supply – Storage
Priority No.	64
Project No.	91904005
District Contact	Katherine Oven koven@valleywater.org

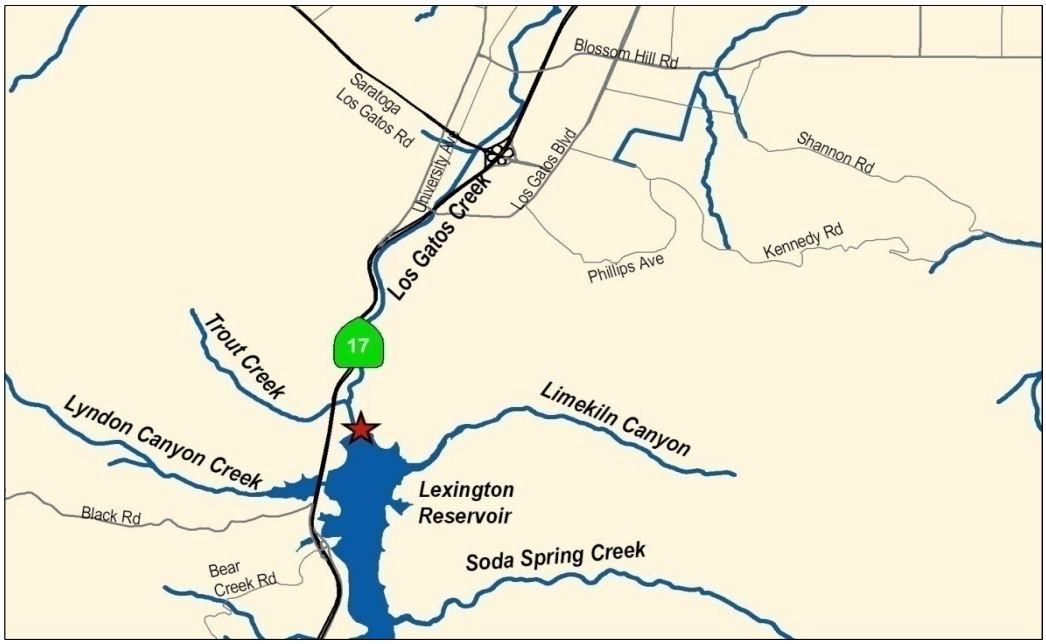
Lexington Reservoir with the Lenihan Dam Outlet structure in the foreground

PROJECT DESCRIPTION

This project plans, designs, and constructs new low-level outlet works at Lenihan Dam to meet the following objectives:

- Safely meet District and California Department of Water Resources Division of Safety of Dams (DSOD) discharge requirements.
- Rescind the existing Division of Safety of Dams restrictions that limit outlet release flows to 70 cfs.

PROJECT LOCATION



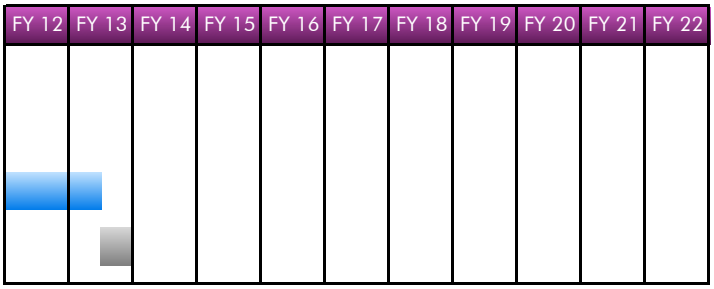
★ Project Location

SCHEDULE & STATUS

October 2000 to June 2013

Planning phase is complete. Design phase is complete. Construction phase includes three years of plant establishment monitoring.

Phase	Cost
Plan	4,215
Design	5,484
Construct	46,540
Closeout	117
	56,356



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures						Total
Project	FY11	FY12	FY13	FY14	FY15	FY16	FY17	Future	
91904005-Lenihan Dam Outlet Modifications	56,151	102	103	0	0	0	0	0	56,356
with inflation	56,151	102	103	0	0	0	0	0	56,356

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY11	FY12		FY13	FY14	FY15	FY16	FY17	Future	
91904005-Lenihan Dam Outlet Modifications	56,357	0	104	0	0	0	0	0	0	56,357

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	56,357
Other Funding Source	0
Total	56,357

OPERATING COST IMPACTS

The completion of this project is not anticipated to change operating costs. The District will continue to operate and maintain the facilities in the same manner.

USEFUL LIFE: 50+ Years

Project	**Pacheco Pumping Plant ASD Replacement**
Program	Water Supply – Storage
Priority No.	80
Project No.	91954001
District Contact	Katherine Oven koven@valleywater.org

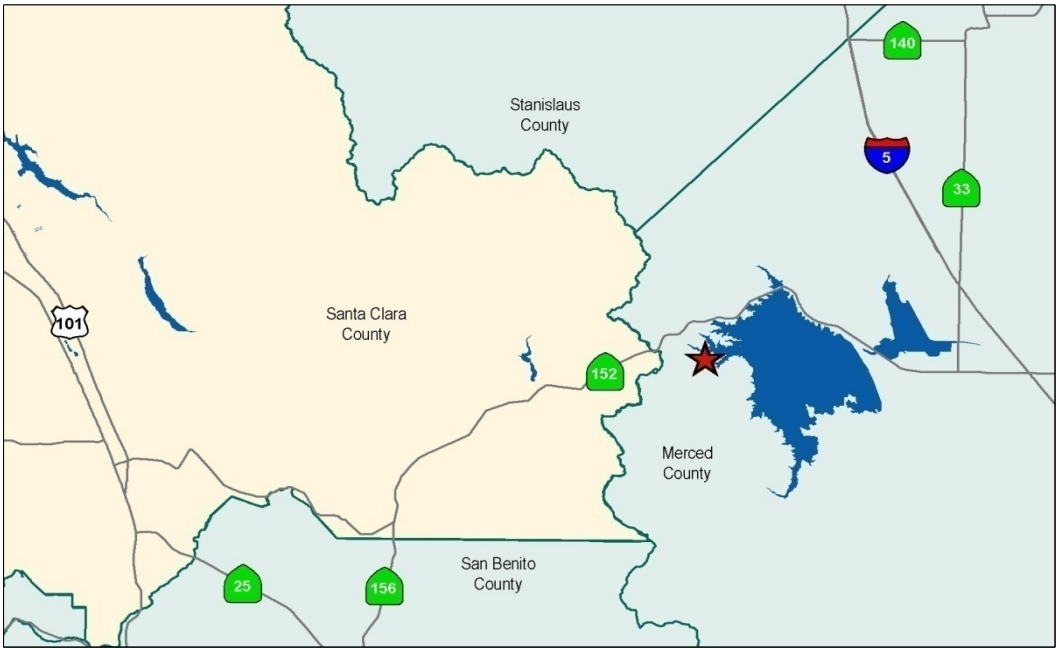
Removing the motor from one of the 12 pumps at Pacheco Pumping Plant

PROJECT DESCRIPTION

This project plans, designs, and constructs improvements to replace the existing adjustable speed drives (ASDs) and ancillary equipment at Pacheco Pumping Plant to accomplish the following objectives:

- Improve plant operation and reliability.
- Reduce operation and maintenance costs.

PROJECT LOCATION



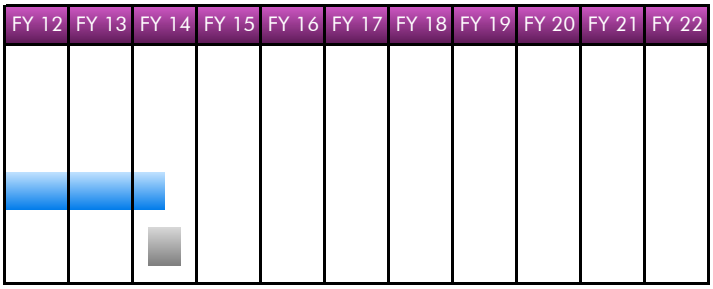
★ Project Location

SCHEDULE & STATUS

July 2003 to February 2014

Planning phase is complete.
Design phase is complete.

Phase	Cost
Plan	797
Design	1,382
Construct	17,412
Closeout	30
	19,621



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY11	FY12	FY13	FY14	FY15	FY16	FY17	Future	
91954001-Pacheco Pumping Plant ASD Replacement	17,144	1,199	1,003	275	0	0	0	0	19,621
with inflation	17,144	1,199	1,003	292	0	0	0	0	19,638

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY11	FY12		FY13	FY14	FY15	FY16	FY17	Future	
91954001-Pacheco Pumping Plant ASD Replacement	17,518	826	1	1,003	292	0	0	0	0	19,638

Adjusted Budget includes adopted budget plus a planned budget adjustment of $57,000.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	15,603
San Benito County Water District	4,035
Total	19,638

OPERATING COST IMPACTS

The completion of this project is anticipated to decrease operating costs by approximately $13,000 beginning in FY 2015 over the first 5 years, as new equipment will require less maintenance.

USEFUL LIFE: 10 – 15 Years

Project	**San Luis Reservoir Low Point Improvement**
Program	Water Supply – Storage
Priority No.	53
Project No.	91214007
District Contact	Sandy Oblonsky soblonsky@valleywater.org

San Luis Reservoir

PROJECT DESCRIPTION

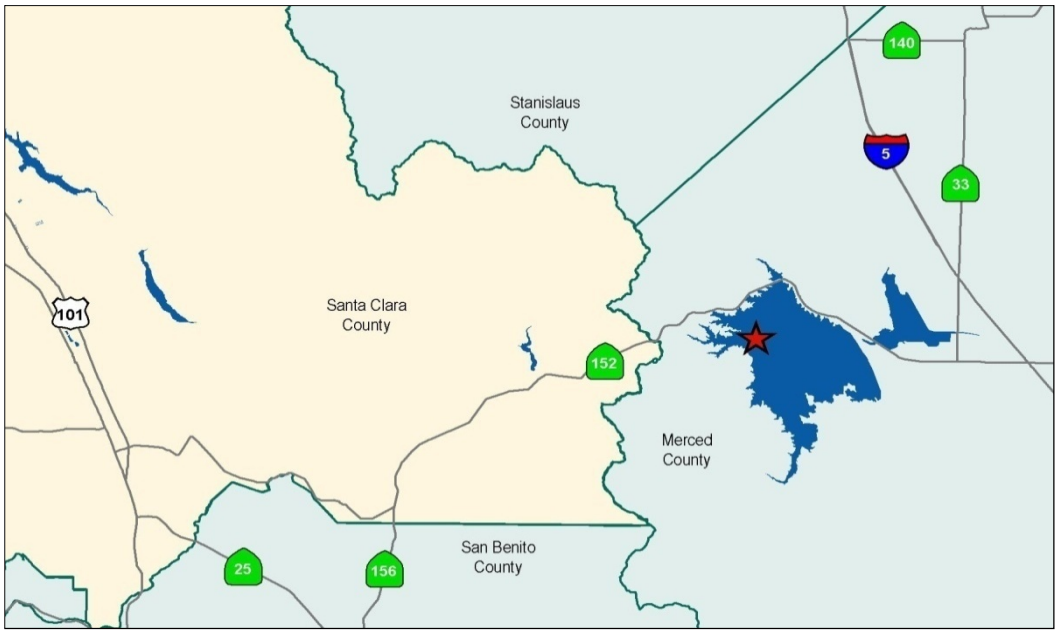
This project is in Federal Feasibility with the U.S. Bureau of Reclamation. The objectives, benefits, scope of work and schedule are determined by the federal process. These are presented in the Federal Appraisal Report and Plan of Study May 2006. The federal feasibility study is anticipated to be completed in 2010. On the basis of the water resources problems identified to date, the following study objectives were developed for this project:

- Increase the certainty of meeting the requested delivery schedule of annual allocations to San Luis Reservoir dependant Central Valley Project (CVP) Contractors.
- To the extent possible, while meeting the first objective, increase the reliability (quality of water available for allocation) of annual allocations to CVP contractors.
- To the extent possible, while meeting the first objective, forecast the final allocation to San Luis Reservoir dependent contractors earlier in the season.

Several additional opportunities may also be available as a result of addressing the above objectives. These include water quality improvements for the San Felipe Division contractors and ecosystem restoration opportunities.

The project is currently funded for federal planning only. The scope, schedule, costs and funding sources for design and construction will be determined at the completion of the planning phase.

PROJECT LOCATION



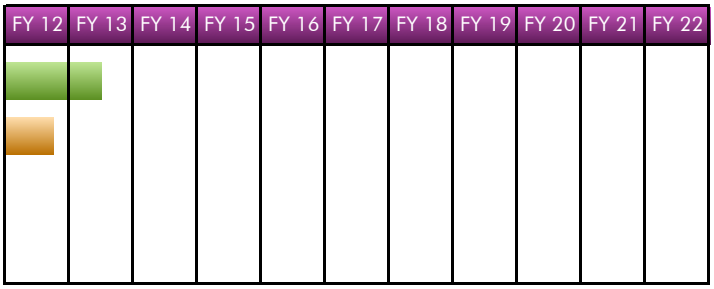
★ Project Location

SCHEDULE & STATUS

July 2001 to December 2012

(Planning Phase Only)
Planning phase includes some preliminary design activities.

Phase	Cost
Plan	14,903
Design	250
Construct	-
Closeout	-
	15,153



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures						Total
Project	FY11	FY12	FY13	FY14	FY15	FY16	FY17	Future	
91214007-San Luis Reservoir Low Point Improvement	12,397	1,599	1,251	0	0	0	0	0	15,247
with inflation	12,397	1,599	1,251	0	0	0	0	0	15,247

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests					Total
Project	FY11	FY12		FY13	FY14	FY15	FY16	FY17	Future	
91214007-San Luis Reservoir Low Point Improvement	15,235	0	1,239	12	0	0	0	0	0	15,247

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	3,747
Department of Water Resources	11,454
U.S. Bureau of Reclamation	46
Total	15,247

OPERATING COST IMPACTS

Planning Phase Only: No operating cost impacts are expected from the completion of this phase of the project.

USEFUL LIFE: Not Available

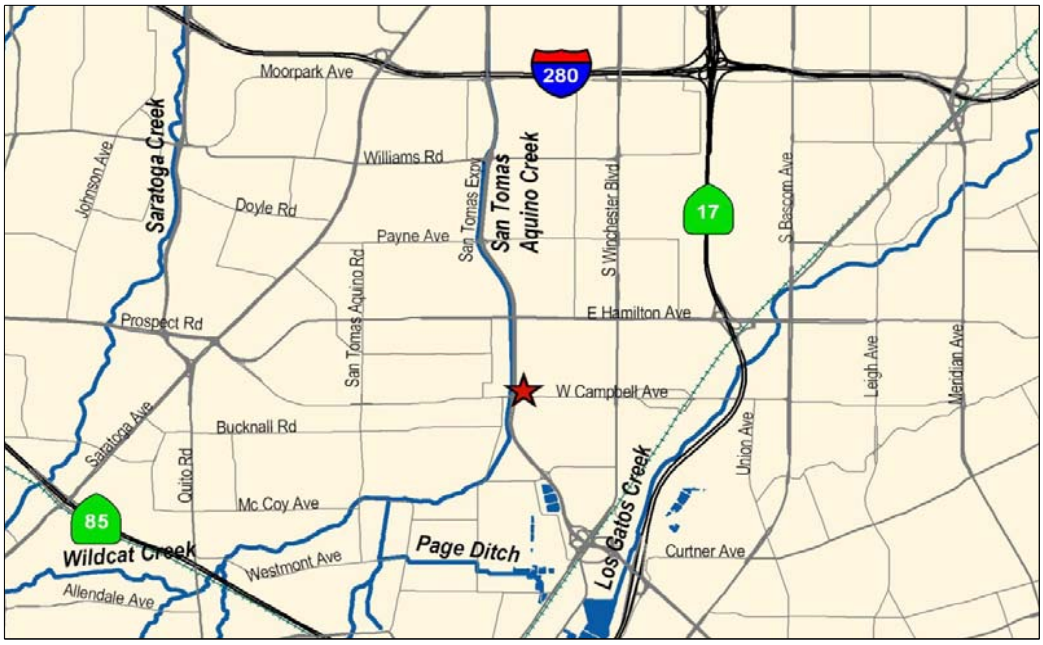
Project	**San Tomas Well Field**
Program	Water Supply – Storage
Priority No.	33
Project No.	91124001
District Contact	Joan Maher jmaher@valleywater.org

One of the newly constructed pump station buildings.

PROJECT DESCRIPTION

This project plans, designs, and constructs improvements at the San Tomas Well Field in the City of Campbell to enhance water supply management by preserving and improving groundwater extraction capacity.

PROJECT LOCATION



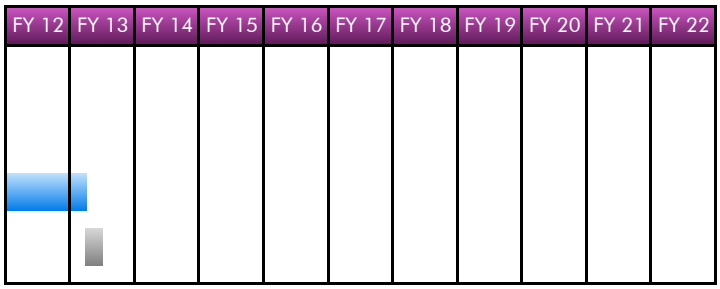
★ Project Location

SCHEDULE & STATUS

September 2003 to July 2012

Planning phase is complete. Design and construction phases overlap due to separate contracts for pump station buildings and utilities.

Phase	Cost
Plan	n/a
Design	n/a
Construct	n/a
Closeout	n/a
	n/a



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures						Total
Project	FY11	FY12	FY13	FY14	FY15	FY16	FY17	Future	
91124001-San Tomas Well Field	11,937	422	31	0	0	0	0	0	12,390
with inflation	11,937	422	31	0	0	0	0	0	12,390

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY11	FY12		FY13	FY14	FY15	FY16	FY17	Future	
91124001-San Tomas Well Field	12,474	0	115	0	0	0	0	0	0	12,474

Adjusted Budget includes adopted budget plus approved budget adjustments. Approved funding exceeds planned expenditures by approximately $84,000. Excess funding will be returned to reserves at the end of the project.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	7,545
City of Campbell Redevelopment Agency	4,929
Total	12,474

OPERATING COST IMPACTS

The completion of this project is anticipated to increase operating costs by approximately $255,000 per year, beginning in FY 2013. Increases for operating this new facility include labor, power, chemicals, and maintenance.

USEFUL LIFE: 15+ Years

Project	**Small Capital Improvements, San Felipe**
Program	Water Supply – Storage
Priority No.	66
Project No.	91214010s
District Contact	Sandy Oblonsky soblonsky@valleywater.org

Suction wear ring bacterial corrosion of Impeller. Similar rehabilitation projects will be done in this project.

PROJECT DESCRIPTION

This project provides resources for the improvement of small capital investments that replace or extend the lifetime of an asset. This project implements a systematic approach to equipment replacement and renewal at facilities contained within San Felipe Division by designing and constructing improvements identified through the District's 10-year asset management program. Infrastructure within this project includes tunnels, large diameter pipelines and valve structures, pumps and associated equipment, as well as a large above ground storage tank. The Reach 1 renewal and replacement activities are conducted in coordination and cooperation with San Felipe Division Reach 1 contractors, partner cities, and other agencies. Planned projects for FY 2013 include:

- 91214010–Reach 1: Rebuild Pacheco Pump #3, replace shafting, and modify/rehab motor for drive replacement.
- 91214010–Reach 1: Rehabilitate valve bushings and packing for Pump Unit 3 Pump Discharge.
- 91214010–Reach 1: Install appurtenances to facilitate draining
- 91224010–Reach 2: No Projects Planned.
- 91234010–Reach 3: Install storage equipment and final detail parts for new warehouse.
- 91234010–Reach 3: Construct metal shelving/racks for new storage building.
- 91234010–Reach 3: Install safety bollards, electrical modifications, etc.

PROJECT LOCATION

Project Location

PROJECT SCHEDULE

This project is part of a regularly scheduled 10-year maintenance and asset management program.

Traditional planning, design, and construction phases do not apply.

Phase	Cost
Plan	n/a
Design	n/a
Construct	n/a
Closeout	n/a
	26,041

FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY11	FY12	FY13	FY14	FY15	FY16	FY17	Future	
91214010-Small Capital Improvements, San Felipe Reach 1	n/a	996	1,578	1,068	1,051	1,082	1,114	6,078	12,967
with inflation	n/a	996	1,578	1,133	1,148	1,218	1,291	7,720	15,084
91234010-Small Capital Improvements, San Felipe Reach 3	n/a	1,369	61	2,689	1,008	1,038	1,069	5,840	13,074
with inflation	n/a	1,369	61	2,853	1,101	1,168	1,239	7,417	15,209
TOTAL	**0**	**2,365**	**1,639**	**3,757**	**2,059**	**2,120**	**2,183**	**11,918**	**26,041**
with inflation	**0**	**2,365**	**1,639**	**3,986**	**2,250**	**2,386**	**2,531**	**15,137**	**30,293**

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY11	FY12		FY13	FY14	FY15	FY16	FY17	Future	
91214010-Small Capital Improvements, San Felipe Reach 1	n/a	996	0	1,578	1,133	1,148	1,218	1,291	7,720	15,084
91234010-Small Capital Improvements, San Felipe Reach 3	n/a	1,407	0	61	2,853	1,101	1,168	1,239	7,417	15,247
TOTAL	**0**	**2,403**	**0**	**1,639**	**3,986**	**2,250**	**2,386**	**2,531**	**15,137**	**30,331**

Adjusted Budget includes adopted budget plus approved budget adjustments. Small Capital Improvement projects do not carry forward unspent funds from one fiscal year to the next. Approved funding exceeds actual expenditures by $38,000. Execess funds are returned to fund reserves at the close of each fiscal year and new funding is provided in the next fiscal year.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	26,759
San Benito County Water District	3,573
Total	**30,331**

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs, as the project does not significantly alter the existing facilities or modes of operation.

USEFUL LIFE: Not Available

Project	**5-Year Pipeline Rehabilitation**
Program	Water Supply – Transmission
Priority No.	56
Project No.	95084001
District Contact	Katherine Oven koven@valleywater.org

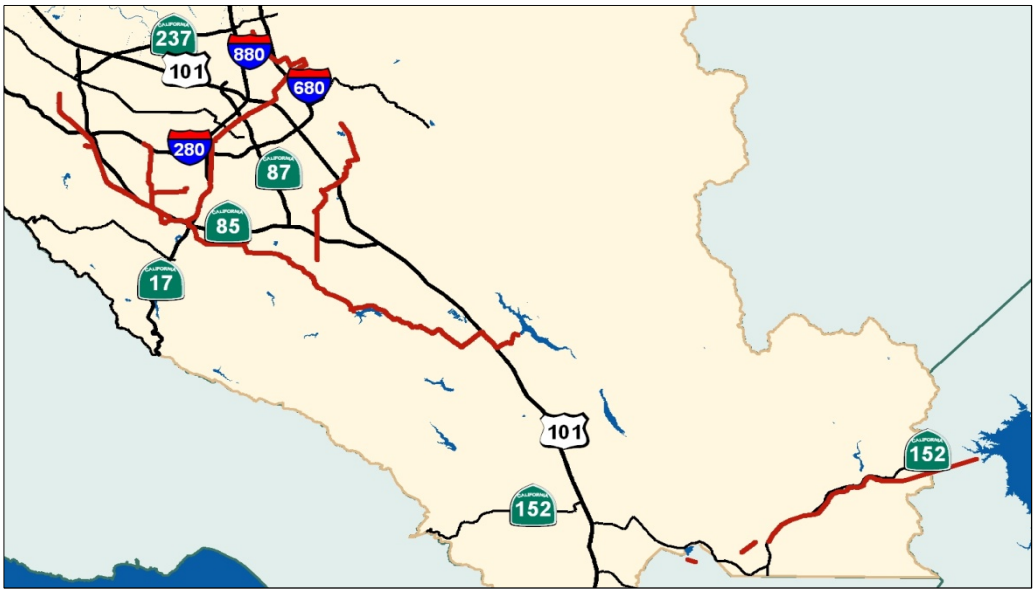
A typical line valve assembly to be rehabilitated

PROJECT DESCRIPTION

This project plans, designs, and constructs major repairs and improvements to the District's pipelines and tunnels to accomplish the following objectives:

- Perform internal inspections
- Replace old valves and flow meters as approprate
- Replace pipeline appurtenance assemblies and piping
- Upgrade pipeline air valve venting in accordance with CDPH guidelines
- Modify failure prone pipeline appurtenance connections
- Perform internal maintenance and repair activities, as required

PROJECT LOCATION

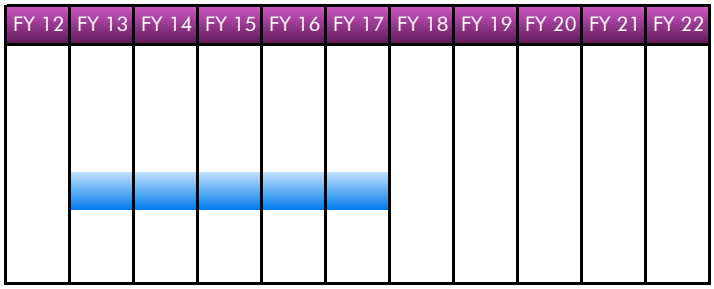


Project Location

SCHEDULE & STATUS

July 2012 to June 2017

Phase	Cost
Plan	1,681
Design	4,622
Construct	14,855
Closeout	10
	21,168



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures						Total
Project	FY11	FY12	FY13	FY14	FY15	FY16	FY17	Future	
95084001-5-Year Pipeline Rehabilitation	0	0	4,133	3,312	5,870	3,578	4,275	0	21,168
with inflation	0	0	4,133	3,514	6,414	4,027	4,956	0	23,044

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests					Total
Project	FY11	FY12		FY13	FY14	FY15	FY16	FY17	Future	
95084001-5-Year Pipeline Rehabilitation	0	0	0	4,133	3,514	6,414	4,027	4,956	0	23,044

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	23,044
Other Funding Source	0
Total	23,044

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs, as the project does not significantly alter the existing facilities or modes of operation.

USEFUL LIFE: Not Available

Project	**Alamitos Diversion Dam Improvements**
Program	Water Supply – Transmission
Priority No.	72
Project No.	92404003
District Contact	Melanie Richardson mrichardson@valleywater.org

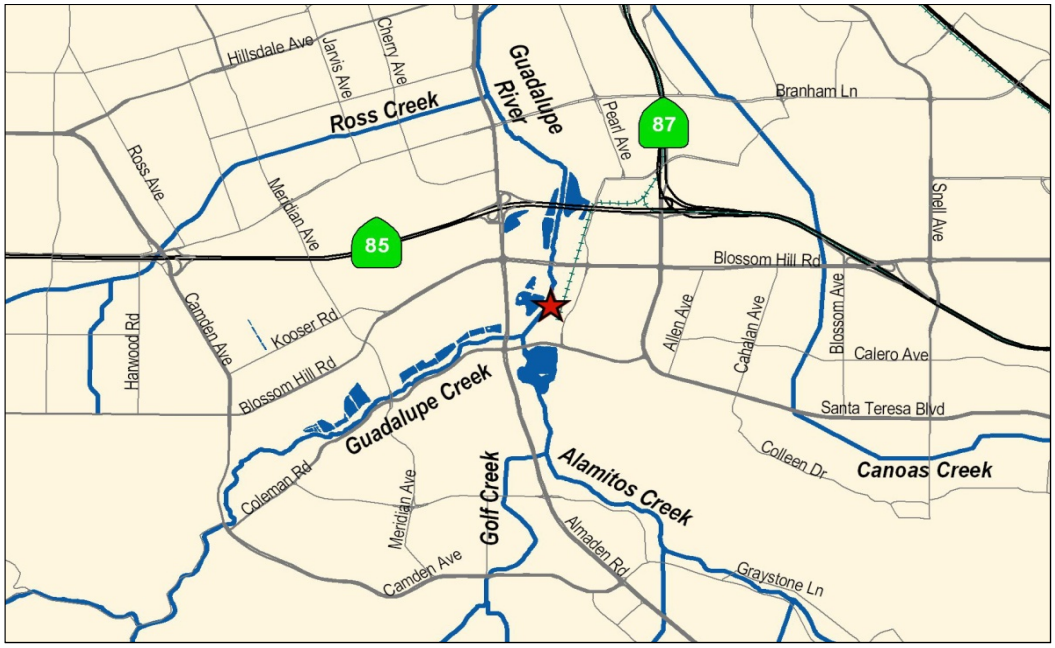
Future location of Alamitos Diversion Dam on Guadalupe River

PROJECT DESCRIPTION

This project plans, designs, and constructs improvements at Alamitos Diversion Dam on the Guadalupe River, about 1,300 feet upstream of Blossom Hill Road in San Jose, to accomplish the following objectives:

- Preserve existing water rights.
- Improve staff safety by minimizing exposure of staff to a potentially hazardous environment.
- Enhance recreational opportunities.
- Perform operations and maintenance in a more environmentally sensitive manner.

PROJECT LOCATION



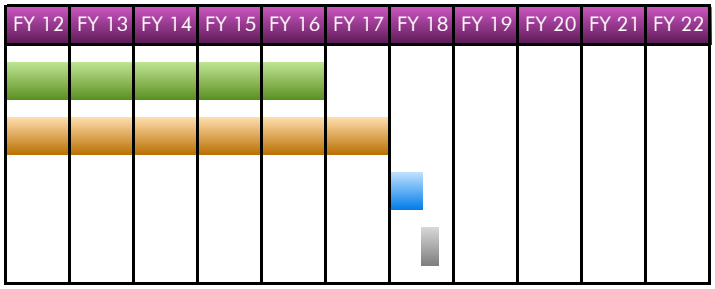
★ Project Location

SCHEDULE & STATUS

August 2006 to March 2018

Planning and Design schedules are extended to coordinate with the Three Creeks Habitat Conservation Plan.

Phase	Cost
Plan	963
Design	228
Construct	1,860
Closeout	15
	3,066



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY11	FY12	FY13	FY14	FY15	FY16	FY17	Future	
92404003-Alamitos Diversion Dam Improvements	836	1	1	1	1	291	820	1,115	3,066
with inflation	836	1	1	1	1	328	951	1,349	3,467

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY11	FY12		FY13	FY14	FY15	FY16	FY17	Future	
92404003-Alamitos Diversion Dam Improvements	2,962	0	2,125	0	0	0	0	0	505	3,467

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	3,467
Other Funding Source	0
Total	3,467

OPERATING COST IMPACTS

Operating cost impacts are anticipated and will be determined upon completion of the planning study.

USEFUL LIFE: 50+ Years

Project	**Cathodic Protection of USBR-Owned Pipelines**
Program	Water Supply – Transmission
Priority No.	71
Project No.	92C40310
District Contact	Frank Maitski fmaitski@valleywater.org

Anode wells will be installed similar to this installation on a different pipeline.

PROJECT DESCRIPTION

This project plans, designs, and constructs new cathodic protection systems for the Santa Clara and Pacheco Conduits, which are owned by the US Bureau of Reclamation (USBR) and operated and maintained by the district through an agreement. This project will determine if the Pacheco and Santa Clara Conduits have experienced corrosion-related damage/deterioration, evaluate measures to provide adequate corrosion protection of the pipelines and, based on the outcome of the evaluation, install identified corrosion protection measure(s) as required to accomplish the following objectives:

- Extend the life of District pipeline assets.
- Reduce life-cycle costs.
- Reduce unplanned service interruptions.

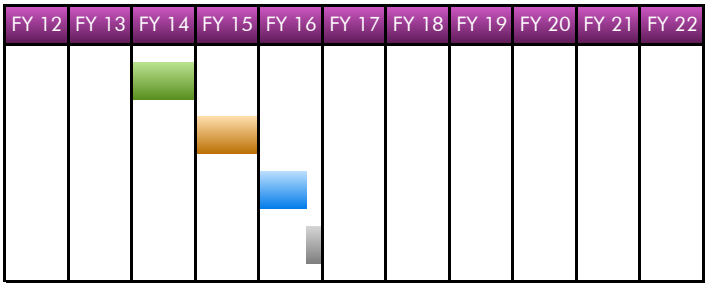
PROJECT LOCATION

Project Location

SCHEDULE & STATUS

July 2013 to June 2016

Phase	Cost
Plan	517
Design	396
Construct	3,457
Closeout	53
	4,422



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures						Total
Project	FY11	FY12	FY13	FY14	FY15	FY16	FY17	Future	
92C40310-Cathodic Protection of USBR-Owned Pipelines	0	0	0	475	438	3,509	0	0	4,422
with inflation	0	0	0	504	478	3,950	0	0	4,932

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests					Total
Project	FY11	FY12		FY13	FY14	FY15	FY16	FY17	Future	
92C40310-Cathodic Protection of USBR-Owned Pipelines	0	0	0	0	504	478	3,950	0	0	4,932

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	4,506
San Benito County Water District	426
Total	4,932

OPERATING COST IMPACTS

Operating cost impacts are anticipated and will be available upon completion of the planning study.

USEFUL LIFE: 25+ Years

Project	**Coyote Diversion Dam Improvements**
Program	Water Supply – Transmission
Priority No.	72
Project No.	92484003
District Contact	Melanie Richardson mrichardson@valleywater.org

Steel Percolation Dam on Coyote Creek

PROJECT DESCRIPTION

This project plans, designs, and constructs improvements to the Coyote Steel Percolation Dam located on Coyote Creek, about 2,000 feet downstream of Metcalf Road, to accomplish the following objectives:

- Preserve existing water rights.
- Improve staff safety associated with the removal and installation of the dam.
- Streamline flood prevention and operating procedures for removal and installation of the dam.

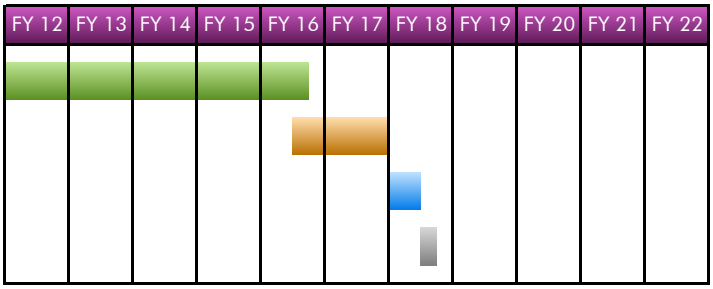
PROJECT LOCATION

★ Project Location

SCHEDULE & STATUS

July 2007 to January 2018

Phase	Cost
Plan	335
Design	160
Construct	1,805
Closeout	15
	2,315



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY11	FY12	FY13	FY14	FY15	FY16	FY17	Future	
92484003-Coyote Diversion Dam Improvements	319	1	1	1	1	122	800	1,070	2,315
with inflation	319	1	1	1	1	137	927	1,295	2,683

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY11	FY12		FY13	FY14	FY15	FY16	FY17	Future	
92484003-Coyote Diversion Dam Improvements	709	0	389	0	0	0	0	679	1,295	2,683

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	2,683
Other Funding Source	0
Total	2,683

OPERATING COST IMPACTS

Operating cost impacts are anticipated an will be available upon completion of the planning study.

USEFUL LIFE: 50+ Years

Project	**IRP2 Additional Line Valves**
Program	Water Supply – Transmission
Priority No.	40
Project No.	94C40220
District Contact	Sandy Oblonsky soblonsky@valleywater.org

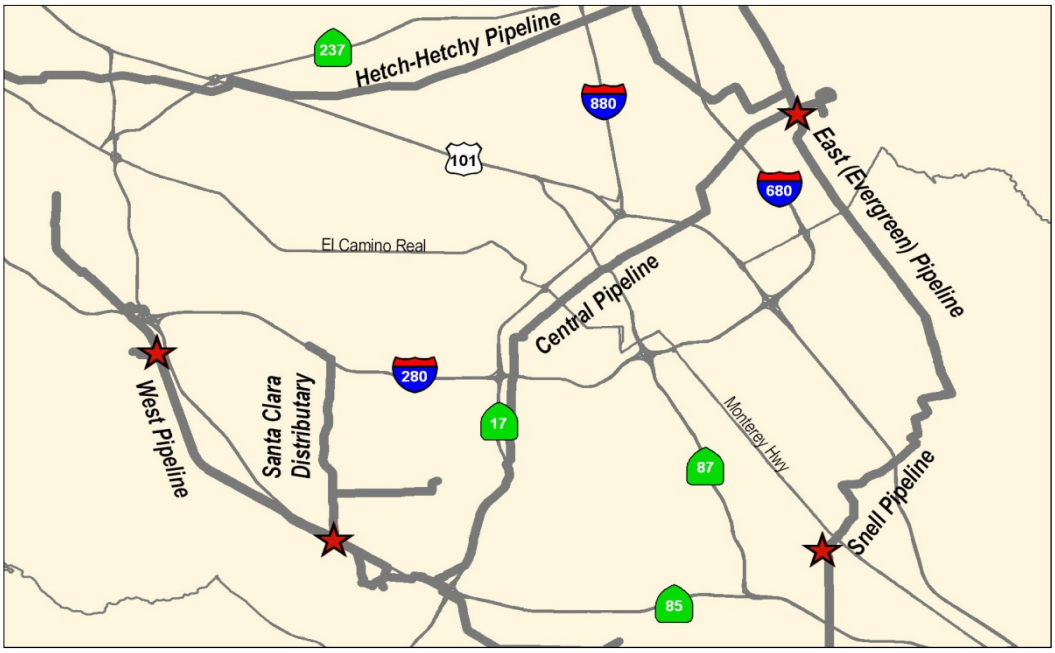
New line valves, actuators, and vaults similar to this will be installed along the East, West, and Snell pipelines

PROJECT DESCRIPTION

This project plans, designs, and constructs four additional line valves in the treated water distribution system, as defined in the Water Infrastructure Reliability Plan, Phase 2 (IRP2). The new line valves will be at various locations along the East, West, and Snell pipeline to accomplish the following objectives:

- Allow the district to isolate sections of the treated water pipeline to prevent water from bleeding out damaged sections following a major seismic event.
- Allow the network of emergency wells to operate, even when there is damage upstream and downstream of individual wells.

PROJECT LOCATION

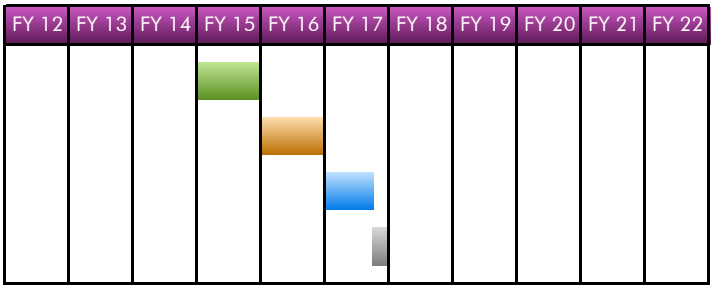


★ Project Location

SCHEDULE & STATUS

July 2014 to June 2017

Phase	Cost
Plan	650
Design	780
Construct	5,813
Closeout	105
	7,348



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY11	FY12	FY13	FY14	FY15	FY16	FY17	Future	
94C40220-IRP2 Additional Line Valves	0	0	0	0	650	780	5,918	0	7,348
with inflation	0	0	0	0	710	878	6,861	0	8,449

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY11	FY12		FY13	FY14	FY15	FY16	FY17	Future	
94C40220-IRP2 Additional Line Valves	0	0	0	0	0	710	878	6,861	0	8,449

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	8,449
Other Funding Source	0
Total	8,449

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs, as the project does not signifiantly alter the existing facilities or modes of operation.

USEFUL LIFE: 35 Years

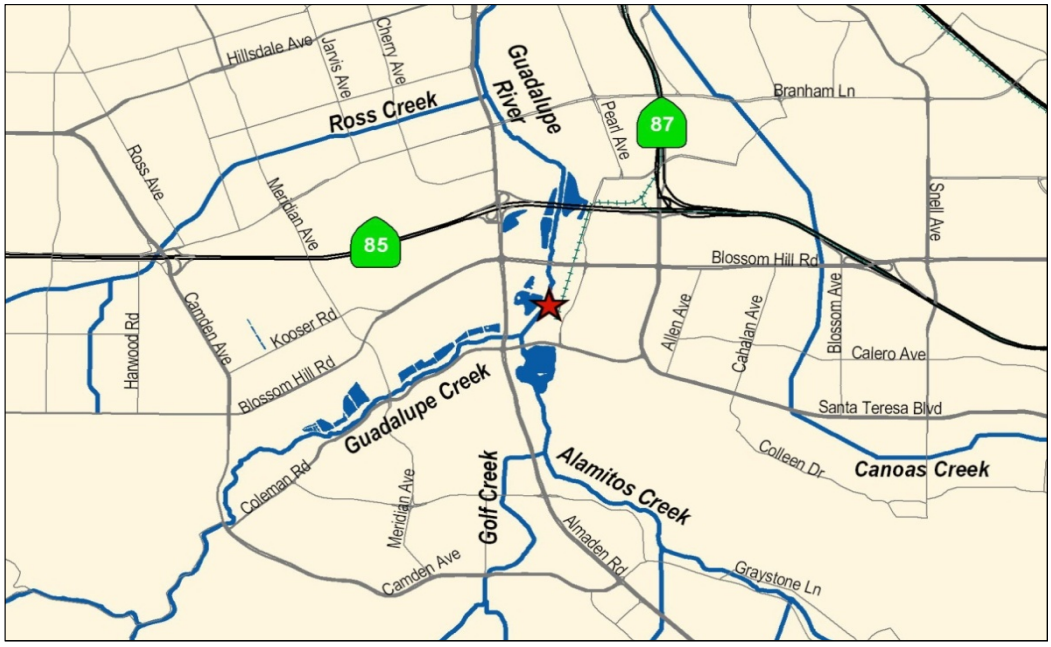
Project	**IRP2 Backup Raw Water Control Center at Almaden**
Program	Water Supply – Transmission
Priority No.	27
Project No.	92374005
District Contact	Katherine Oven koven@valleywater.org

Raw water SCADA operations control room at RWTP.
A satellite control room will be constructed at Almaden.

PROJECT DESCRIPTION

This project plans, designs, and constructs a raw water Supervisory Control and Data Acquisition (SCADA) system at the Almaden Campus, supporting the main system which is remotely located at Rinconada Water Treatment Plant (RWTP), as defined in the Water Infrastructure Reliability Plan, Phase 2 (IRP2), to provide a backup location for the raw water SCADA system.

PROJECT LOCATION

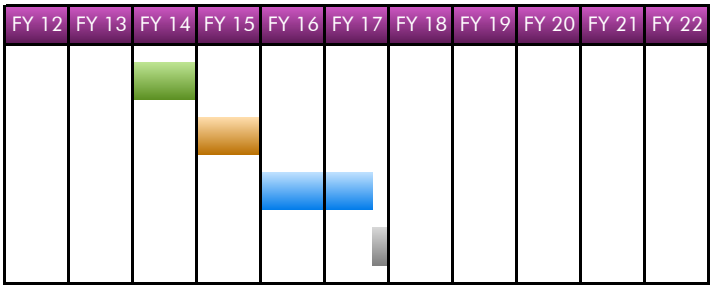


★ Project Location

SCHEDULE & STATUS

July 2013 to June 2017

Phase	Cost
Plan	37
Design	118
Construct	1,293
Closeout	11
	1,460



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY11	FY12	FY13	FY14	FY15	FY16	FY17	Future	
92C40207-IRP2 Backup Raw Water Control Center at Almaden	0	0	0	37	118	735	569	0	1,460
with inflation	0	0	0	39	129	828	659	0	1,656

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY11	FY12		FY13	FY14	FY15	FY16	FY17	Future	
92C40207-IRP2 Backup Raw Water Control Center at Almaden	0	0	0	0	39	129	828	659	0	1,656

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	1,656
Other Funding Source	0
Total	1,656

OPERATING COST IMPACTS

The completion of this project is anticipated to increase operating costs by approximately $40,000 per year, beginning in FY 2017, to have an operator exercise the control room once or twice a month and operational support from control technicians and SCADA engineers.

USEFUL LIFE: 10 Years

Project	**Kirk Diversion Dam and Fish Screen Improvements**
Program	Water Supply – Transmission
Priority No.	72
Project No.	92534003
District Contact	Melanie Richardson mrichardson@valleywater.org

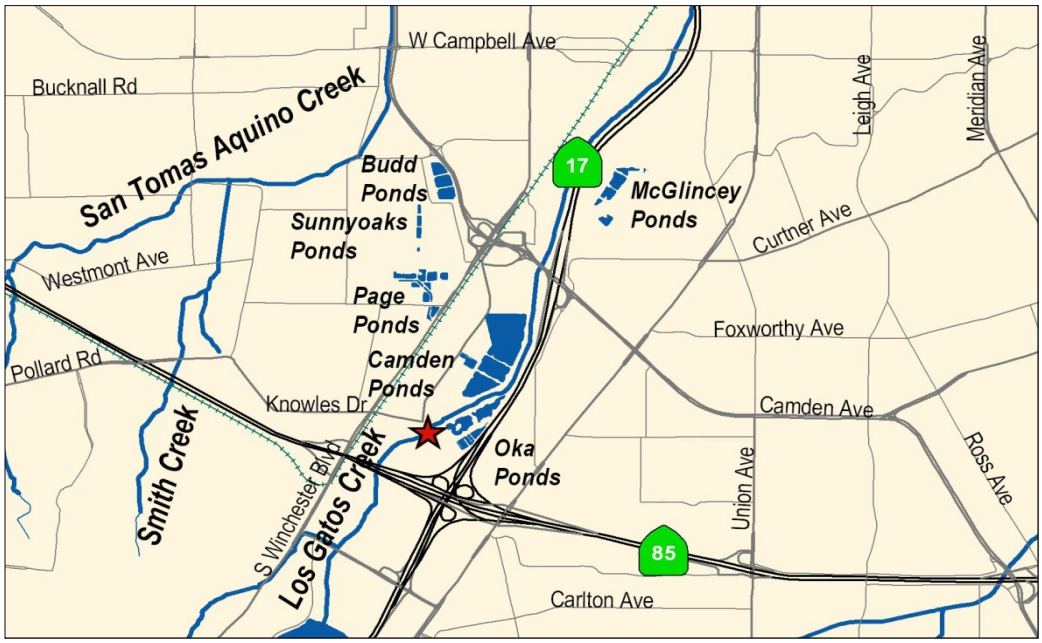
Kirk Dam on Los Gatos Creek

PROJECT DESCRIPTION

This project plans, designs, and constructs improvements to Kirk Diversion Dam on Los Gatos Creek approximately 4,000 feet downstream of Lark Avenue, adjacent to the intersection of Knowles Drive and Dell Avenue, to accomplish the following objectives:

- Preserve existing water rights.
- Reduce flood risk, because the existing flashboard system cannot be removed during storm events or emergencies.
- Improve staff safety by minimizing exposure of staff to a potentially hazardous environment.
- Reduce entrainment of aquatic life forms into the Kirk and Page Ditches.
- Perform operations and maintenance in a more environmentally sensitive manner.

PROJECT LOCATION

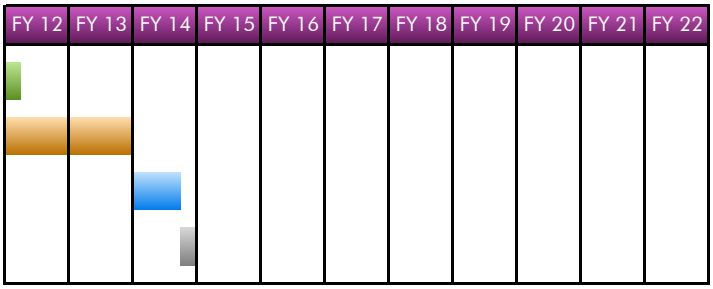


★ Project Location

SCHEDULE & STATUS

May 2007 to June 2014

Phase	Cost
Plan	611
Design	699
Construct	2,247
Closeout	18
	3,575



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY11	FY12	FY13	FY14	FY15	FY16	FY17	Future	
92534003-Kirk Diversion Dam and Fish Screen Improvements	793	712	1,636	434	0	0	0	0	3,575
with inflation	793	712	1,636	460	0	0	0	0	3,601

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY11	FY12		FY13	FY14	FY15	FY16	FY17	Future	
92534003-Kirk Diversion Dam and Fish Screen Improvements	3,196	0	1,691	0	405	0	0	0	0	3,601

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	3,601
Other Funding Source	0
Total	3,601

OPERATING COST IMPACTS

The completion of this project is anticipated to decrease operating costs by approximately $8,000 per year, beginning in 2015, based on manual installation and removal of the flashboards. District maintenance crews are required to regularly inspect the site and maintain the rubber dam and fish screens.

USEFUL LIFE: 50+ Years

Project	**Pacheco/Santa Clara Conduit Right of Way Acquisition**
Program	Water Supply – Transmission
Priority No.	60
Project No.	92144001
District Contact	Katherine Oven koven@valleywater.org

Access to much of the San Felipe Division pipelines must currently be made through private property, due to a lack of easements, such as Bloomfield access at Vault 21-23.

PROJECT DESCRIPTION

This project plans, designs, and constructs improvements related to the acquisition of right of way along the South County Pipeline to accomplish the following objectives:

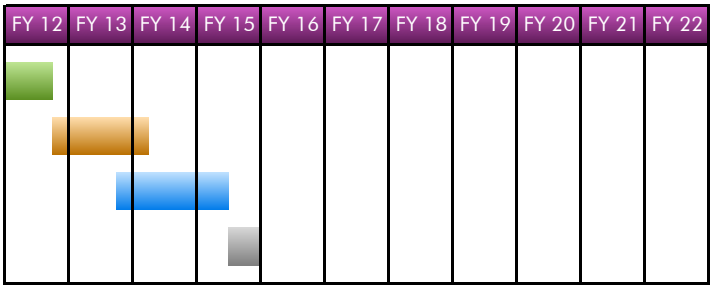
- Provide unlimited access to District owned pipeline.
- Reduce conflicts with local land owners and improve response time for emergency repairs or operations.

PROJECT LOCATION

SCHEDULE & STATUS

July 2009 to June 2015

Phase	Cost
Plan	342
Design	1,717
Construct	240
Closeout	35
	2,334



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures						Total
Project	FY11	FY12	FY13	FY14	FY15	FY16	FY17	Future	
92144001-Pacheco/Santa Clara Conduit Right of Way Acquisition	261	591	703	696	145	0	0	0	2,396
with inflation	261	591	703	738	158	0	0	0	2,452

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests					Total
Project	FY11	FY12		FY13	FY14	FY15	FY16	FY17	Future	
92144001-Pacheco/Santa Clara Conduit Right of Way Acquisition	366	487	1	702	738	158	0	0	0	2,452

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	2,433
San Benito County Water District	19
Total	2,452

OPERATING COST IMPACTS

The completion of this project is anticipated to increase operating costs by approximately $8,000 per year, beginning in FY 2016, for vegetation control and/or maintenance of fences, gates and locks for the access roads.

USEFUL LIFE: 15-20 Years

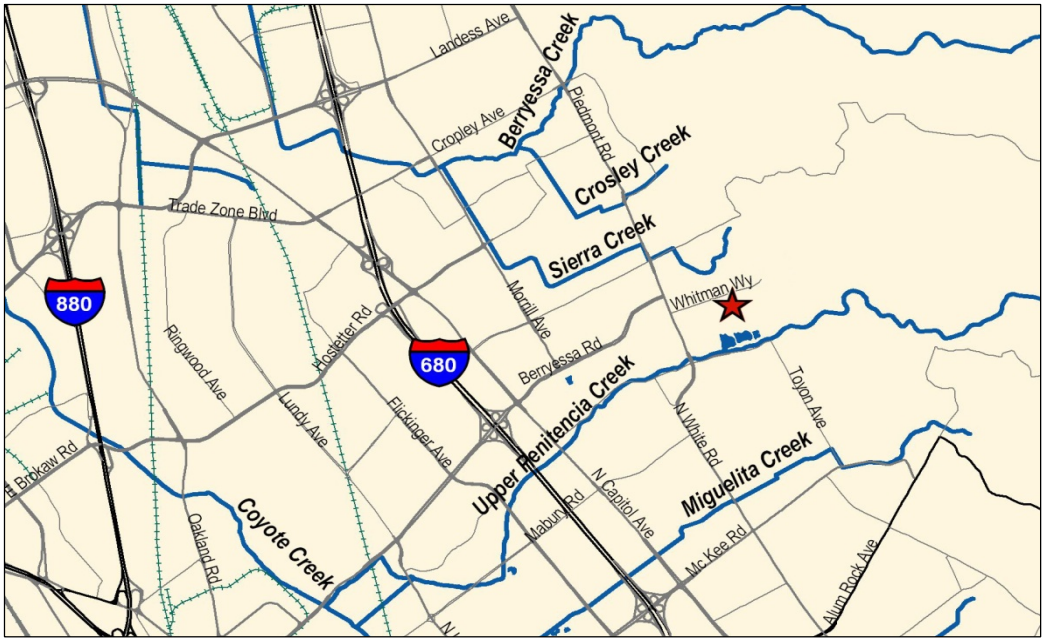
Project	**Penitencia Delivery Main/Force Main Seismic Retrofit**
Program	Water Supply – Transmission
Priority No.	84
Project No.	94384002s
District Contact	Katherine Oven koven@valleywater.org

View of the Delivery Main for the Penitencia Water Treatment Plant

PROJECT DESCRIPTION

This project plans, designs, and constructs seismic improvements to the delivery main and force main junctions to prevent catastrophic failure due to an earthquake.

PROJECT LOCATION

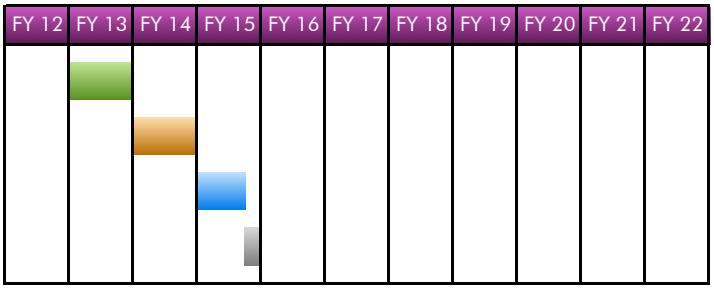


★ Project Location

SCHEDULE & STATUS

July 2012 to June 2015

Phase	Cost
Plan	566
Design	600
Construct	5,000
Closeout	-
	6,166



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures						Total
Project	FY11	FY12	FY13	FY14	FY15	FY16	FY17	Future	
94384002-Penitencia Delivery Main Seismic Retrofit	0	0	283	300	2,500	0	0	0	3,083
with inflation	0	0	283	318	2,732	0	0	0	3,333
92224001-Penitencia Force Main Seismic Retrofit	0	0	283	300	2,500	0	0	0	3,083
with inflation	0	0	283	318	2,732	0	0	0	3,333
TOTAL:	0	0	566	600	5,000	0	0	0	6,166
Total with inflation	0	0	566	637	5,464	0	0	0	6,666

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY11	FY12		FY13	FY14	FY15	FY16	FY17	Future	
94384002-Penitencia Delivery Main Seismic Retrofit	0	0	0	283	318	2,732	0	0	0	3,333
92224001-Penitencia Force Main Seismic Retrofit	0	0	0	283	318	2,732	0	0	0	3,333
TOTAL	0	0	0	566	637	5,464	0	0	0	6,666

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	6,666
Other Funding Source	0
Total	6,666

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs, as the project does not significantly alter the existing facilities or modes of operation.

USEFUL LIFE: Not Available

Project	**Pipeline Hydraulic Reliability Upgrades**
Program	Water Supply – Transmission
Priority No.	21
Project No.	95144001
District Contact	Frank Maitski fmaitski@valleywater.org

Telemetry will be added to agricultural turnouts such as these so that flow can be monitored remotely and the hydraulic performance of the pipeline improved.

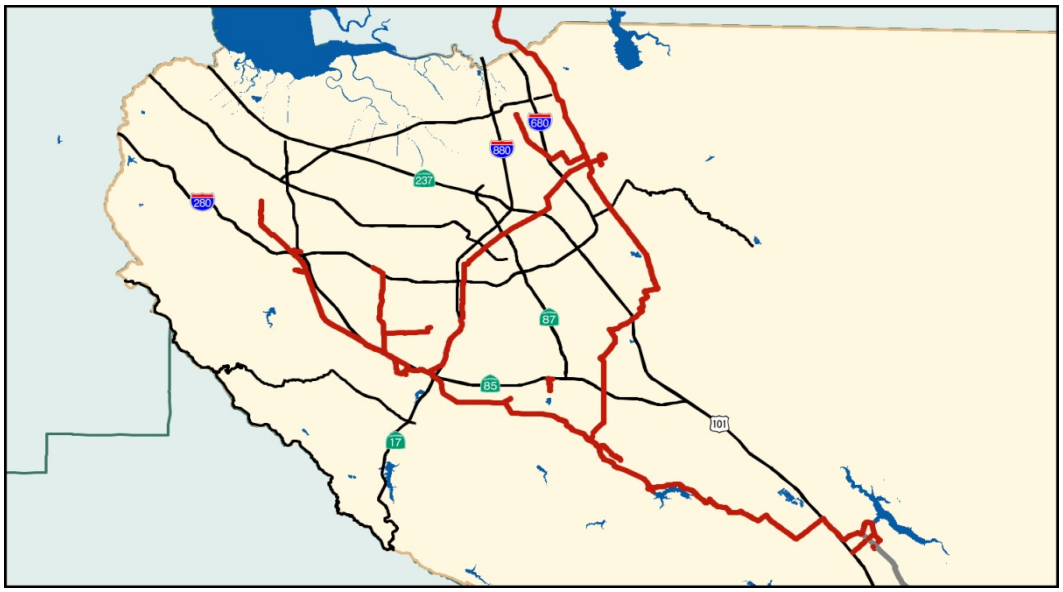
PROJECT DESCRIPTION

This project plans, designs and constructs improvements along 142 miles of treated and raw water pipelines to accomplish the following objectives:

- Ensure hydraulic reliability of the pipelines.
- Upgrade the District's hydraulic model.
- Develop a GIS coverage of pipelines and use these tools to plan improvements.

This project is currently funded for model building and the planning phase only. The scope, schedule, costs and funding sources of the design and construction phases will be determined at the completion of the planning phase.

PROJECT LOCATION



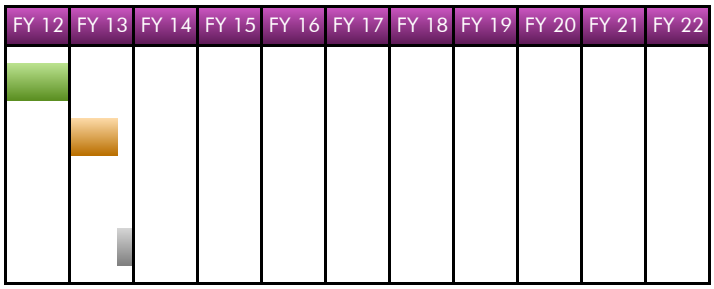
Project Location

SCHEDULE & STATUS

July 2010 to June 2012

(Planning Phase Only)

Phase	Cost
Plan	130
Design	145
Construct	-
Closeout	-
	275



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY11	FY12	FY13	FY14	FY15	FY16	FY17	Future	
95144001-Pipeline Hydraulic Reliability Upgrades	145	40	90	0	0	0	0	0	275
with inflation	145	40	90	0	0	0	0	0	275

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY11	FY12		FY13	FY14	FY15	FY16	FY17	Future	
95144001-Pipeline Hydraulic Reliability Upgrades	136	139	90	0	0	0	0	0	0	275

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	275
Other Funding Source	0
Total	275

OPERATING COST IMPACTS

Planning Phase Only: No operating cost impacts are expected from the completion of this phase of the project.

USEFUL LIFE: Not Available

Project	**Small Capital Improvements, Raw Water Transmission**
Program	Water Supply – Transmission
Priority No.	72
Project No.	92764009
District Contact	Sandy Oblonsky soblonsky@valleywater.org

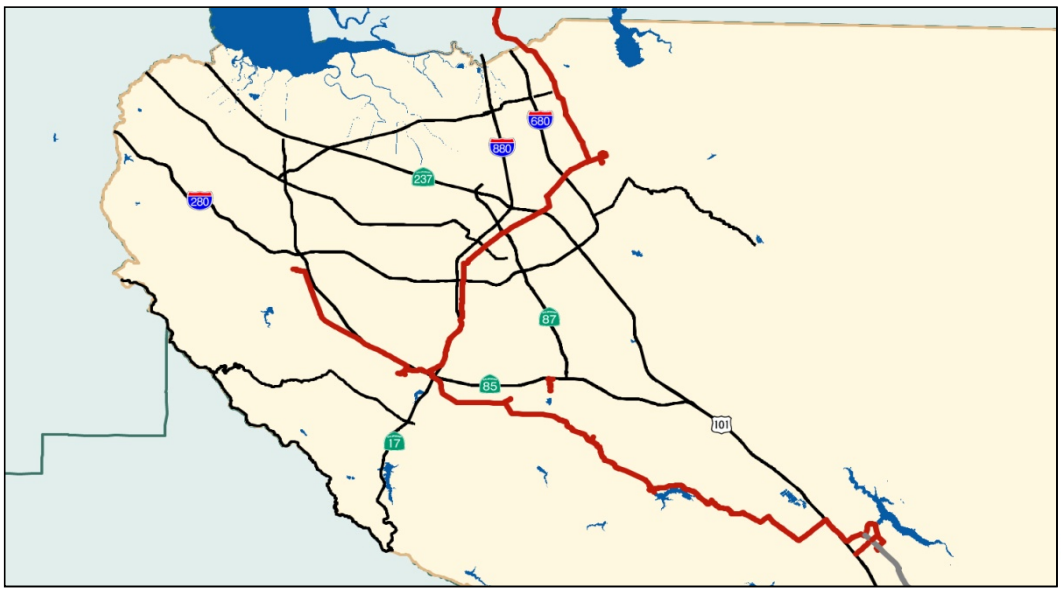
Major repair and replacement of turnout roofs and similar small raw water capital projects will be done, per the asset management plan.

PROJECT DESCRIPTION

This project provides resources for the improvement of small capital investments that replace or extend the lifetime of an asset. This project will repair or rehabilitate various existing raw water distribution facilities. These activities include identifying and fixing corrosion problems, replacing valves and other appurtenances and modifying water recharge facilities to avoid failure of the raw water transmission system and extend the life of the infrastructure. This project is part of the District's 10-year asset management program. Planned projects for FY 2013 include:

- Add cathodic protection to Anderson Force Main (rectifier, anode bed and associated wiring).
- Add cathodic protection to Coyote Discharge Line (rectifier, anode bed and associated wiring).
- Add cathodic protection to Penitencia Delivery Main (rectifier, anode bed and associated wiring).
- Plan, design, and execute Evergreen Canal Remediation and Clean-up.

PROJECT LOCATION



Project Location

SCHEDULE & STATUS

This project is part of a regularly scheduled 10-year maintenance and asset management program.

Traditional planning, design, and construction phases do not apply.

Phase	Cost
Plan	n/a
Design	n/a
Construct	n/a
Closeout	n/a
	n/a

FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY11	FY12	FY13	FY14	FY15	FY16	FY17	Future	
92764009-Small Capital Improvements, Raw Water Transmission	n/a	1,079	674	618	618	618	618	3,090	7,315
with inflation	n/a	1,079	674	656	675	696	716	3,918	8,414

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY11	FY12		FY13	FY14	FY15	FY16	FY17	Future	
92764009-Small Capital Improvements, Raw Water Transmission	n/a	1,079	0	719	656	675	696	716	3,918	8,459

Adjusted Budget includes adopted budget plus approved budget adjustments. Small Capital Improvement projects do not carry forward unspent funds from one fiscal year to the next. Approved funding in FY13 exceeds actual expenditures by $45,000. Execess funds are returned to fund reserves at the close of each fiscal year and new funding is provided in the next fiscal year.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	8,459
Other Funding Source	0
Total	**8,459**

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs, as the project does not significantly alter the existing facilities or modes of operation.

USEFUL LIFE: Not Available

Project	**Small Capital Improvements, Treated Water Transmission**
Program	Water Supply – Transmission
Priority No.	65
Project No.	94764006
District Contact	Sandy Oblonsky soblonsky@valleywater.org

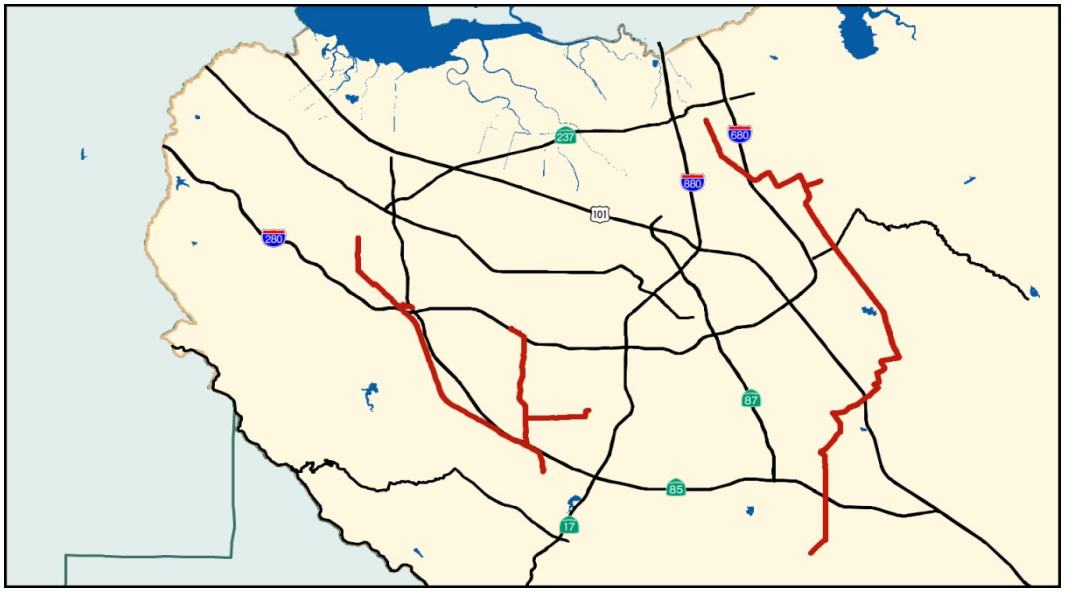
Small Capital projects at treated water transmission facilities, similar to this new valve installation in the Piedmont Line Valve Vault, will be done, per the asset management plan.

PROJECT DESCRIPTION

This project provides resources for the improvement of small capital investments that replace or extend the lifetime of an asset. This project will repair or rehabilitate various existing treated water distribution facilities, such as identifying and treating corrosion problems, replacing valves and other appurtenances and repairing or adding turnouts to avoid failure of the treated water transmission system and to extend the life of the infrastructure. This project is part of the District's 10-year asset management program. Planned projects for FY 2013 include:

- Replace flow meters, valves, and actuators at various turn-outs and distributaries.
- Correct pipeline electrical isolation on the Santa Clara Distributary at WPL.
- Replace the vault roof at the SCD Line Valve Vault and Flow Meter Vault.
- Install manholes to facilitate inspections on the Campbell Distributary and the Santa Clara Distributary.
- Replace corroded coupling on WPL at the Stevens Creek Crossing.
- Add cathodic protection to Penitencia Force Main (rectifier, anode bed and associated wiring).

PROJECT LOCATION



Project Location

SCHEDULE & STATUS

This project is part of a regularly scheduled 10-year maintenance and asset management program.

Traditional planning, design, and construction phases do not apply.

Phase	Cost
Plan	n/a
Design	n/a
Construct	n/a
Closeout	n/a
	n/a

FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY11	FY12	FY13	FY14	FY15	FY16	FY17	Future	
94764006-Small Capital Improvements, Treated Water Transmission	n/a	0	998	1,024	988	988	988	4,940	9,926
with inflation	n/a	0	998	1,086	1,080	1,112	1,145	6,263	11,685

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY11	FY12		FY13	FY14	FY15	FY16	FY17	Future	
94764006-Small Capital Improvements, Treated Water Transmission	n/a	0	0	998	1,086	1,080	1,112	1,145	6,263	11,685

Adjusted Budget includes adopted budget plus approved budget adjustments. Small Capital Improvement projects do not carry forward unspent funds from one fiscal year to the next. Execess funds are returned to fund reserves at the close of each fiscal year and new funding is provided in the next fiscal year.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	11,685
Other Funding Source	0
Total	11,685

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs, as the project does not significantly alter the existing facilities or modes of operation.

USEFUL LIFE: Not Available

Project	Stevens Creek Supplemental Water
Program	Water Supply – Transmission
Priority No.	69
Project No.	92764010
District Contact	Katherine Oven koven@valleywater.org

Stevens Creek Pipeline intersects Vasona Canal near Pollard Road and Highway 85.

PROJECT DESCRIPTION

This project plans, designs, and constructs a bidirectional raw water pipeline to connect the Stevens Creek Reservoir to the Stevens Creek Pipeline, to accomplish the following objectives:

- Provide supplemental raw water to Stevens Creek below the reservoir should the reservoir require dewatering.
- Convey water from Stevens Creek Reservoir to existing turnouts along the Stevens Creek Pipeline.

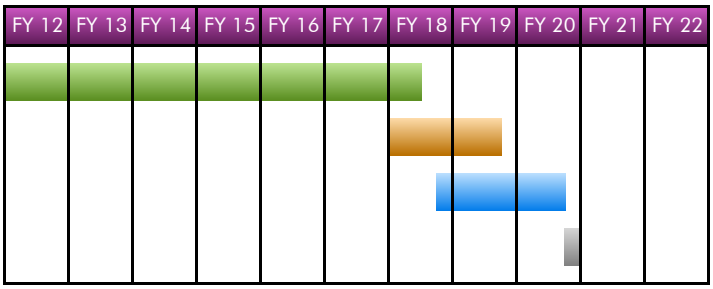
PROJECT LOCATION

SCHEDULE & STATUS

July 2010 to June 2020

This project is on hold and scheduled to resume work in FY 2013 to coordinate with the Habitat Conservation Plan and seismic evaluation of the Stevens Creek Dam.

Phase	Cost
Plan	1,738
Design	2,575
Construct	23,999
Closeout	103
	28,415



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY11	FY12	FY13	FY14	FY15	FY16	FY17	Future	
92764010-Stevens Creek Supplemental Water	61	0	0	0	0	441	1,133	26,780	28,415
with inflation	61	0	0	0	0	496	1,313	33,993	35,864

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY11	FY12		FY13	FY14	FY15	FY16	FY17	Future	
92764010-Stevens Creek Supplemental Water	438	0	377	0	0	0	119	1,313	33,993	35,864

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	35,864
Other Funding Source	0
Total	35,864

OPERATING COST IMPACTS

Operating cost impacts are anticipated and will be determined during the planning phase.

USEFUL LIFE: Not Available

Project	**IRP2 Seismic Study and Retrofit of WTP Operations Buildings**
Program	Water Supply – Treatment
Priority No.	70
Project No.	93764003
District Contact	Katherine Oven koven@valleywater.org

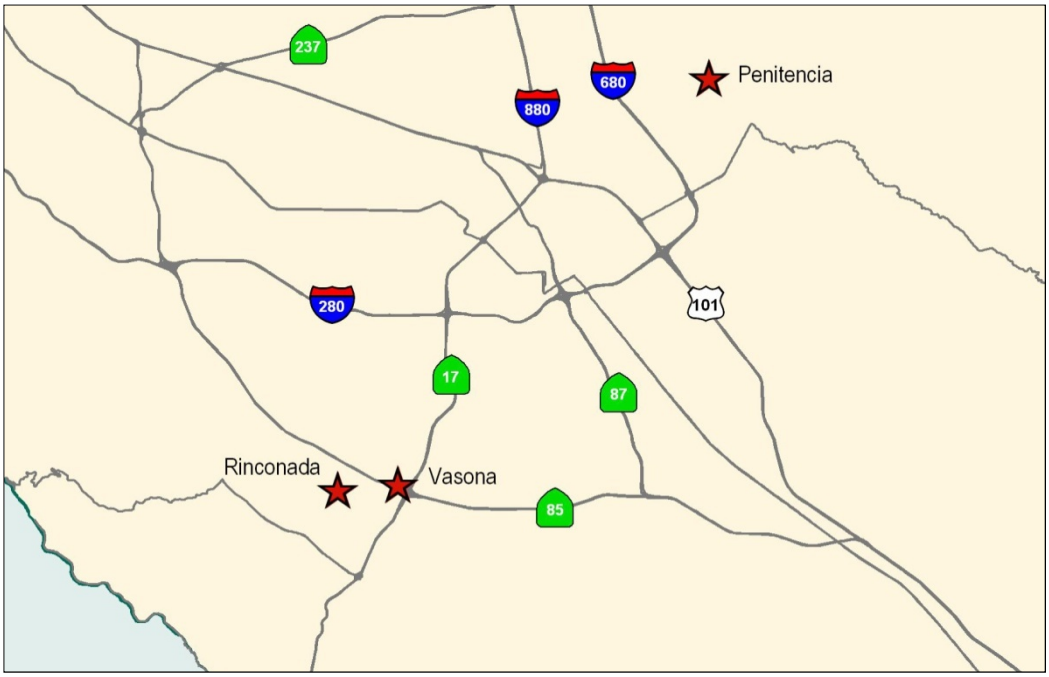
The RWTP control building is one of four buildings that will be studied and possibly retrofitted to meet safety requirements

PROJECT DESCRIPTION

This project plans, designs, and constructs improvements, including possible seismic retrofitting of two water treatment plant operations buildings and two buildings at the Vasona Pump Station that were built prior to 1980, as defined in the Water Infrastructure Reliability Plan, Phase 2 (IRP2), to ensure a healthy and safe work environment for employees and provide for continued functionality of these critical facilities after a major earthquake.

In addition, this Project will consider some non-structural elements of the Rinconada Water Treatment Plant (RWTP) Control Building, such as space reallocation, ADA improvements, and HVAC system rehabilitation.

PROJECT LOCATION

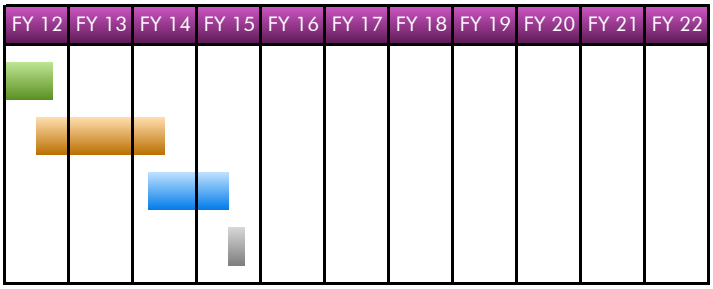


Project Location

SCHEDULE & STATUS

January 2008 to April 2015

Phase	Cost
Plan	1,490
Design	2,462
Construct	11,144
Closeout	150
	15,246



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY11	FY12	FY13	FY14	FY15	FY16	FY17	Future	
93764003-IRP2 Seismic Study and Retrofit of WTP Operations Buildings	1,238	350	2,209	10,430	1,019	0	0	0	15,246
with inflation	1,238	350	2,209	11,065	1,113	0	0	0	15,976

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY11	FY12		FY13	FY14	FY15	FY16	FY17	Future	
93764003-IRP2 Seismic Study and Retrofit of WTP Operations Buildings	4,314	0	2,726	0	10,548	1,113	0	0	0	15,976

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	15,976
Other Funding Source	0
Total	15,976

OPERATING COST IMPACTS

Completion of this project is not anticipated to increase or decrease annual operating costs, as the project does not alter the existing modes of operation. However, seismic retrofit will reduce or avoid structural damages and reduce the cost of post-earthquake repairs.

USEFUL LIFE: 50+ Years

Project	**IRP2 Well Fields**
Program	Water Supply – Treatment
Priority No.	30
Project No.	93504001
District Contact	Katherine Oven koven@valleywater.org

The District will work collaboratively with retailers to optimize well locations like this one and identify cost savings.

PROJECT DESCRIPTION

This project plans, designs, and constructs new wells with an anticipated capacity of 1500 gpm near District transmission mains and retailer turnouts on the East and West sides of the District's distribution system to provide reliable emergency supply to retailers following a catastrophic event.

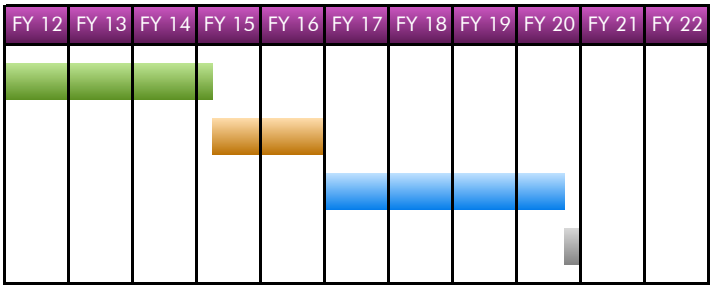
PROJECT LOCATION

No project map is provided. The location of the new wells have not yet been determined.

SCHEDULE & STATUS

July 2010 to June 2020

Phase	Cost
Plan	830
Design	2,023
Construct	15,400
Closeout	300
	18,553



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY11	FY12	FY13	FY14	FY15	FY16	FY17	Future	
93504001-IRP2 Well Fields	46	157	115	385	1,150	1,000	5,500	10,200	18,553
with inflation	46	157	115	408	1,257	1,126	6,376	12,359	21,843

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY11	FY12		FY13	FY14	FY15	FY16	FY17	Future	
93504001-IRP2 Well Fields	79	124	0	115	408	1,257	1,126	6,376	12,359	21,843

Adjusted Budget includes adopted budget plus a planned budget adjustment of $15,000.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	21,843
Other Funding Source	0
Total	21,843

OPERATING COST IMPACTS

Operating cost impacts are anticipated and will be determined during the planning phase.

USEFUL LIFE: 30+ Years

Project	**PWTP Clearwell Recoating and Repair**
Program	Water Supply – Treatment
Priority No.	68
Project No.	93234043
District Contact	Katherine Oven koven@valleywater.org

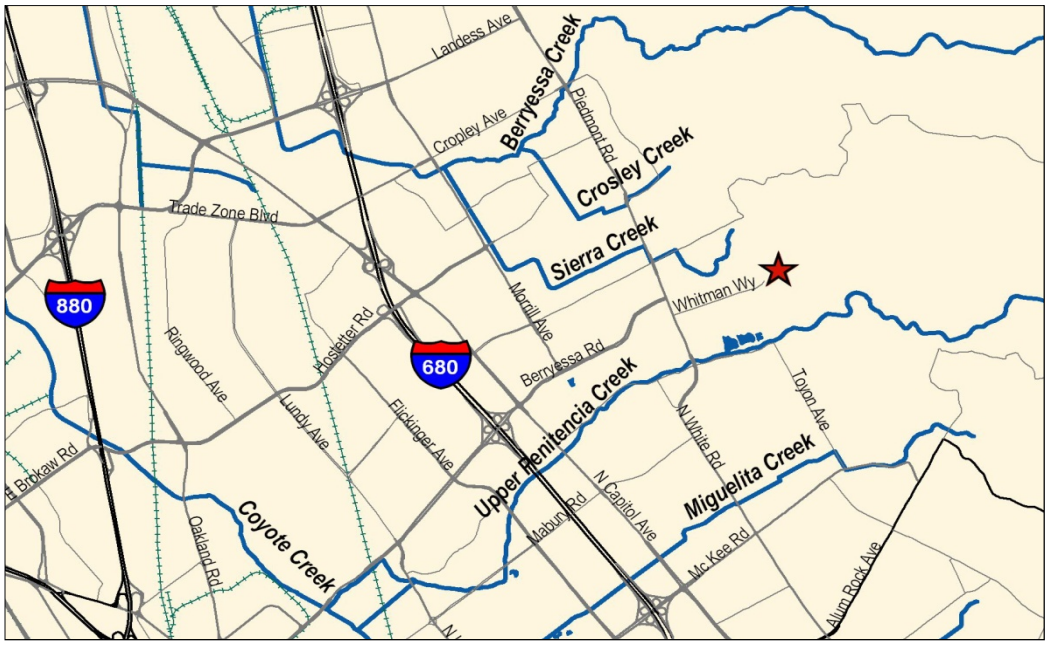
Active corrosion of the rafters and rafter support

PROJECT DESCRIPTION

This project plans, designs, and constructs corrosion repairs to the existing clearwell at Penitencia Water Treatment Plant (PWTP) to accomplish the following objectives:

- Extend the life of the PWTP Clearwell by removing as much corrosion as possible and recoating surfaces as necessary.
- Evaluate the structural condition of the rafters and supports as identified in the January 2009 report by Bay Area Coating Consultants.

PROJECT LOCATION

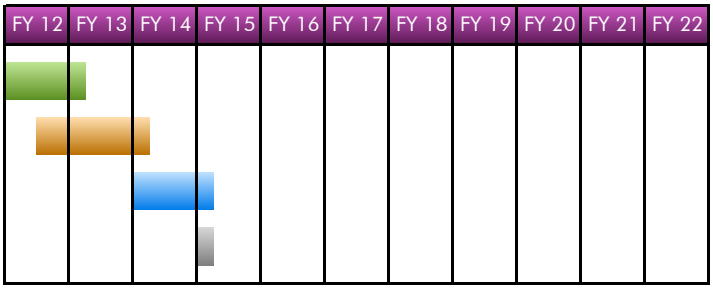


★ Project Location

SCHEDULE & STATUS

July 2010 to September 2014

Phase	Cost
Plan	624
Design	975
Construct	2,680
Closeout	15
	4,294



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY11	FY12	FY13	FY14	FY15	FY16	FY17	Future	
93234043-PWTP Clearwell Recoating and Repair	301	331	962	2,670	30	0	0	0	4,294
with inflation	301	331	962	2,833	33	0	0	0	4,459

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY11	FY12		FY13	FY14	FY15	FY16	FY17	Future	
93234043-PWTP Clearwell Recoating and Repair	1,003	405	776	186	2,833	33	0	0	0	4,459

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	4,459
Other Funding Source	0
Total	4,459

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs as it does not alter existing modes of operation.

USEFUL LIFE: 15 Years

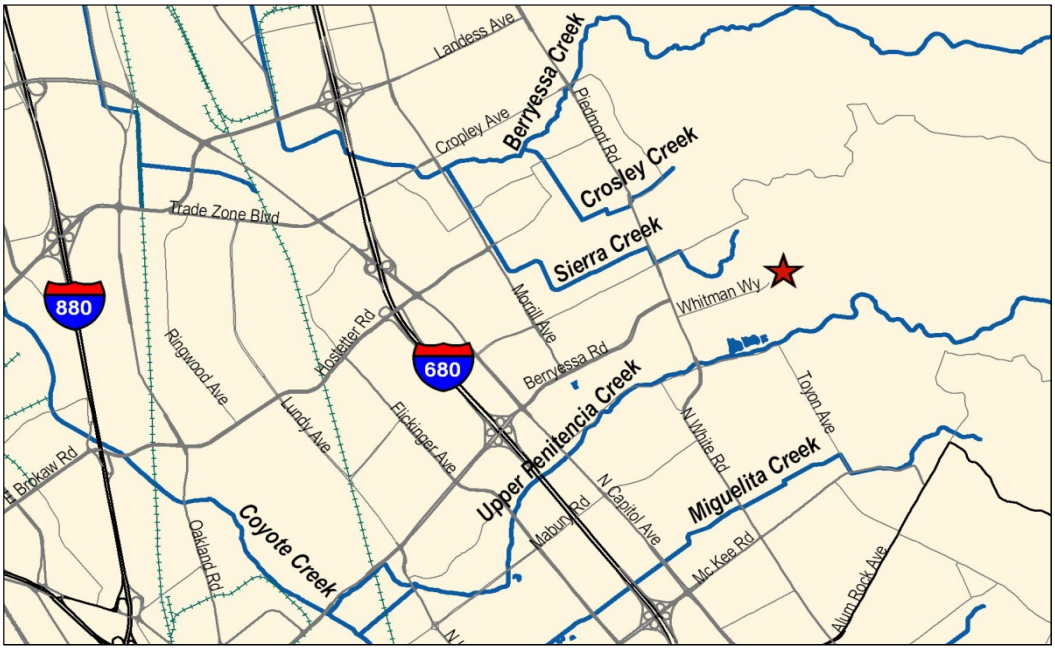
Project	**PWTP Maintenance Building**
Program	Water Supply – Treatment
Priority No.	90
Project No.	93234031
District Contact	Katherine Oven koven@valleywater.org

Story poles depicting maintenance building to be constructed at PWTP

PROJECT DESCRIPTION

This project plans, designs, and constructs a new maintenance building at Penitencia Water Treatment Plant (PWTP) to provide adequate workshop space and storage areas to meet the needs of the plant maintenance personnel.

PROJECT LOCATION



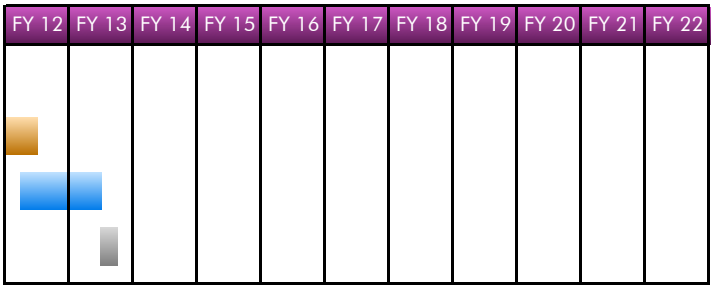
★ Project Location

SCHEDULE & STATUS

March 2000 to February 2013

Planning phase is complete.

Phase	Cost
Plan	1,454
Design	1,611
Construct	2,098
Closeout	91
	5,254



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures						Total
Project	FY11	FY12	FY13	FY14	FY15	FY16	FY17	Future	
93234031-PWTP Maintenance Building	3,031	2,050	180	0	0	0	0	0	5,261
with inflation	3,031	2,050	180	0	0	0	0	0	5,261

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY11	FY12		FY13	FY14	FY15	FY16	FY17	Future	
93234031-PWTP Maintenance Building	5,697	0	616	0	0	0	0	0	0	5,697

Adjusted Budget includes adopted budget plus approved budget adjustments. Funding exceeds planned expenditures by approximately $436,000. Excess funds will be returned to reserves at the end of the project.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	5,697
Other Funding Source	0
Total	5,697

OPERATING COST IMPACTS

Completion of the project is anticipated to increase operating expenditure by $15,000 per year, beginning in FY 2014. The cost of operation of the new building (water, power, etc.) is approximately $1,000 to $2,000 per month. Initially, maintenance costs should be very low.

USEFUL LIFE: 50+ Years

Project	**PWTP Washwater Clarification Facility**
Program	Water Supply – Treatment
Priority No.	49
Project No.	93C40199
District Contact	Katherine Oven koven@valleywater.org

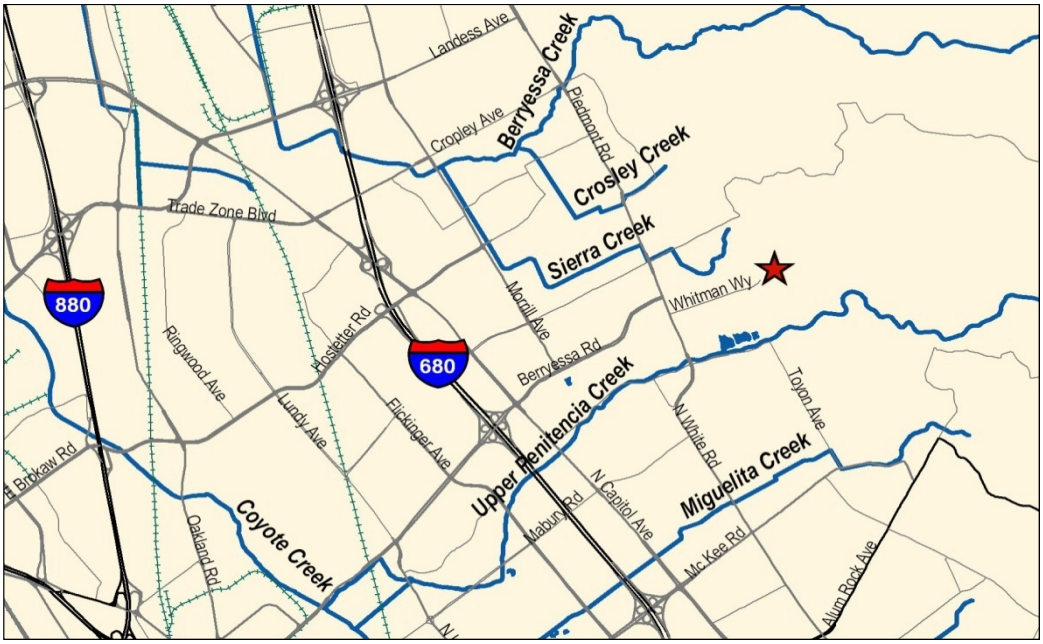
Potential site for new washwater clarification facility in foreground

PROJECT DESCRIPTION

This project plans, designs, and constructs improvements at Penitencia Water Treatment Plant (PWTP) that create a new washwater clarification facility to accomplish the following objectives:

- Improve treated water quality.
- Comply with the Federal Filter Backwash Recycling Rule (FBRR) and the California Cryptosporidium Action Plan (CAP).

PROJECT LOCATION

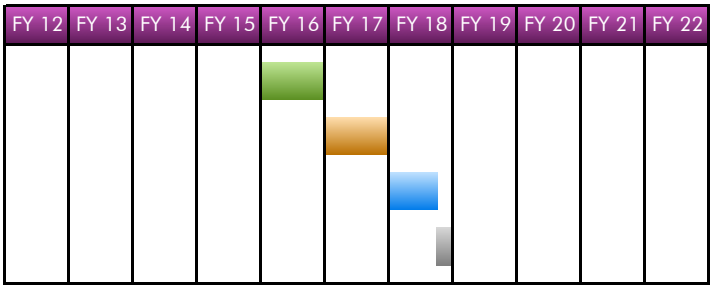


★ Project Location

SCHEDULE & STATUS

July 2015 to June 2018

Phase	Cost
Plan	502
Design	500
Construct	5,550
Closeout	25
	6,576



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY11	FY12	FY13	FY14	FY15	FY16	FY17	Future	
93C40199-PWTP Washwater Clarification Facility	0	0	0	0	0	466	536	5,574	6,576
with inflation	0	0	0	0	0	524	621	6,783	7,928

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY11	FY12		FY13	FY14	FY15	FY16	FY17	Future	
93C40199-PWTP Washwater Clarification Facility	0	0	0	0	0	0	524	621	6,783	7,928

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	7,928
Other Funding Source	0
Total	7,928

OPERATING COST IMPACTS

The completion of this project is anticipated to increase annual operating costs by approximately $50,000 per year beginning in FY 2019, for routine inspections and preventative and maintenance of the new facility.

USEFUL LIFE: Small Pumps – 15 Years; Large Pumps – 35 Years; Chain & Flight System – 20 Years; Structural Elements – 50+ Years

Project	**PWTP Water Pumps Modification**
Program	Water Supply – Treatment
Priority No.	75
Project No.	93234042
District Contact	Katherine Oven koven@valleywater.org

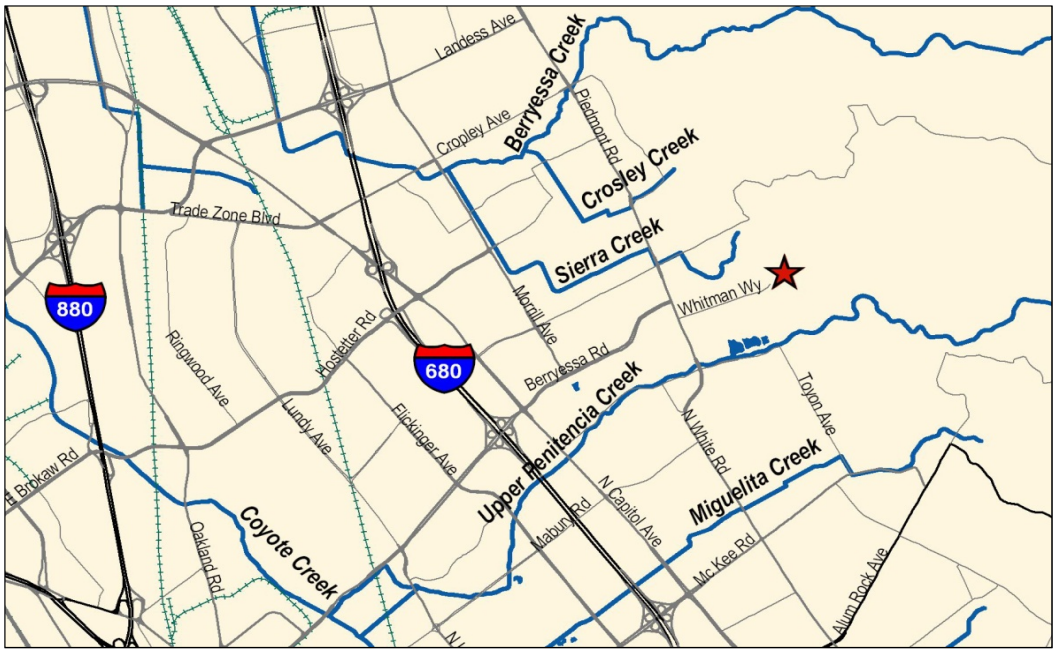
Two plant water pumps and three cooling water pumps supply water used at the Penitencia Water Treatment Plant.

PROJECT DESCRIPTION

This project plans, designs, and constructs improvements at Penitencia Water Treatment Plant (PWTP) pumps to accomplish the following objectives:

- Increase operating capacity of the plant water pumps.
- Increase operating capacity of the cooling water pumps.
- Meet plant water demands.
- Improve operational reliability.

PROJECT LOCATION

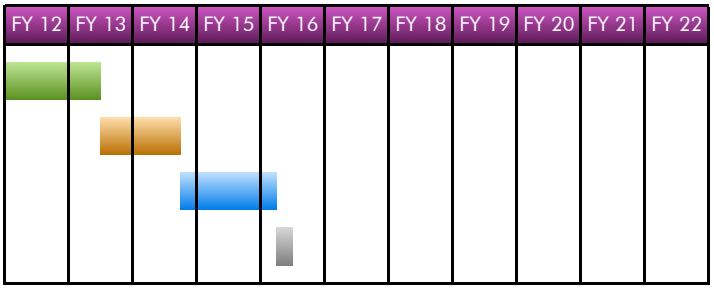


★ Project Location

SCHEDULE & STATUS

November 2009 to December 2015

Phase	Cost
Plan	477
Design	680
Construct	2,272
Closeout	16
	3,445



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures						Total
Project	FY11	FY12	FY13	FY14	FY15	FY16	FY17	Future	
93234042-PWTP Water Pumps Modification	136	175	571	2,120	337	106	0	0	3,445
with inflation	136	175	571	2,249	368	119	0	0	3,619

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests					Total
Project	FY11	FY12		FY13	FY14	FY15	FY16	FY17	Future	
93234042-PWTP Water Pumps Modification	2,745	0	2,434	0	386	368	119	0	0	3,619

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	3,619
Other Funding Source	0
Total	3,619

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease operating costs, as the project does not significantly alter the existing facilities or modes of operation.

USEFUL LIFE: 30 Years

Project	**RWTP BL-1 Valve Vault Replacement**
Program	Water Supply – Treatment
Priority No.	58
Project No.	93C40115
District Contact	Katherine Oven koven@valleywater.org

Access to this underground enclosure is located in the middle of a driveway used by large 18-wheelers to access other areas of the plant.

PROJECT DESCRIPTION

This project plans, designs, and constructs improvements at Rinconada Water Treatment Plant (RWTP) BL-1 Valve Vault to accomplish the following objectives:

- Relieve difficult access.
- Provide for a reliable valve.
- Provide an isolation or "guard" valve.

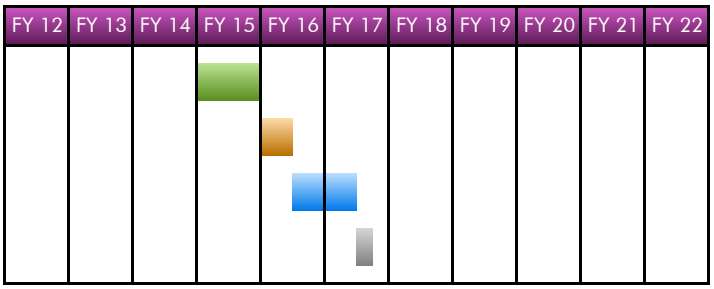
PROJECT LOCATION

★ Project Location

SCHEDULE & STATUS

July 2014 to March 2017

Phase	Cost
Plan	224
Design	112
Construct	972
Closeout	32
	1,340



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY11	FY12	FY13	FY14	FY15	FY16	FY17	Future	
93C40115-RWTP BL-1 Valve Vault Replacement	0	0	0	0	224	1,018	99	0	1,340
with inflation	0	0	0	0	244	1,145	115	0	1,504

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY11	FY12		FY13	FY14	FY15	FY16	FY17	Future	
93C40115-RWTP BL-1 Valve Vault Replacement	0	0	0	0	0	244	1,145	115	0	1,504

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	1,504
Other Funding Source	0
Total	1,504

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs, as the project does not signifiantly alter the existing facilities or modes of operation.

USEFUL LIFE: Vault – 40 Years; Valve – 35 Years; Control System – 15 Years

Project	**RWTP FRP Primary Electrical System Improvement**
Program	Water Supply – Treatment
Priority No.	87
Project No.	93294054
District Contact	Katherine Oven koven@valleywater.org

The RWTP's main electrical equipment will be replaced and upgraded.

PROJECT DESCRIPTION

This project plans, designs, and constructs modifications to the Rinconada Water Treatment Plant (RWTP) primary electrical equipment; including main transformers, switches, breakers and electrical panels, pump system valves, and actuators; consistent with the Facility Renewal Program (FRP) to improve reliability by avoiding unplanned plant shutdown due to failures of the primary electrical equipment.

PROJECT LOCATION

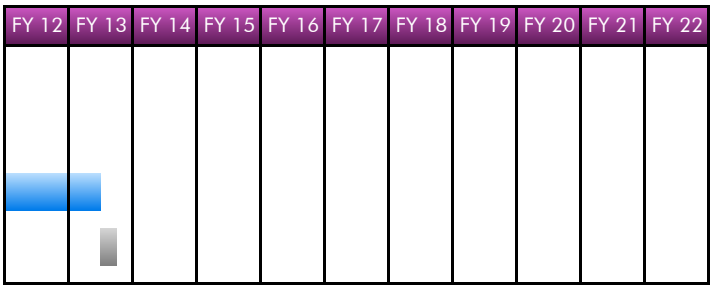
★ Project Location

SCHEDULE & STATUS

September 2008 to September 2012

Planning phase is complete.

Phase	Cost
Plan	4,131
Design	346
Construct	1,287
Closeout	70
	5,834



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY11	FY12	FY13	FY14	FY15	FY16	FY17	Future	
93294054-RWTP FRP Primary Electrical System Improvement	4,634	901	299	0	0	0	0	0	5,834
with inflation	4,634	901	299	0	0	0	0	0	5,834

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY11	FY12		FY13	FY14	FY15	FY16	FY17	Future	
93294054-RWTP FRP Primary Electrical System Improvement	5,428	142	35	264	0	0	0	0	0	5,834

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	5,834
Other Funding Source	0
Total	5,834

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs, as the project does not significantly alter the existing facilities or modes of operation.

USEFUL LIFE: 15 Years

Project	**RWTP FRP Residuals Management**
Program	Water Supply – Treatment
Priority No.	87
Project No.	93294051
District Contact	Katherine Oven koven@valleywater.org

RWTP washwater recovery basins will be retrofitted.

PROJECT DESCRIPTION

This project plans, designs, and constructs modifications to the Rinconada Water Treatment Plant (RWTP) residuals management processes, consistent with the Facility Renewal Program (FRP) to accomplish the following objectives:

- Extend the useful life of the treatment plant.
- Improve the efficiency of the residual management processes.
- Minimize risk of discharge violations.
- Improve the reliability of RWTP.

PROJECT LOCATION

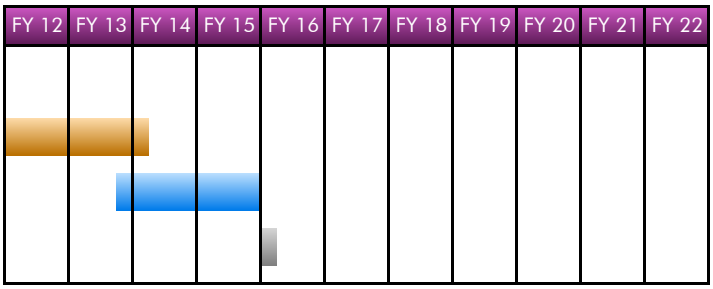
★ Project Location

SCHEDULE & STATUS

July 2008 to September 2015

Design and Construction phases overlap due to a phased approach to managing the project.

Phase	Cost
Plan	1,404
Design	2,287
Construct	16,490
Closeout	100
	20,281



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY11	FY12	FY13	FY14	FY15	FY16	FY17	Future	
93294051-RWTP FRP Residuals Management	1,562	1,690	639	15,370	890	130	0	0	20,281
with inflation	1,562	1,690	639	16,306	973	146	0	0	21,316

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY11	FY12		FY13	FY14	FY15	FY16	FY17	Future	
93294051-RWTP FRP Residuals Management	3,154	426	328	311	16,306	973	146	0	0	21,316

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	21,316
Other Funding Source	0
Total	21,316

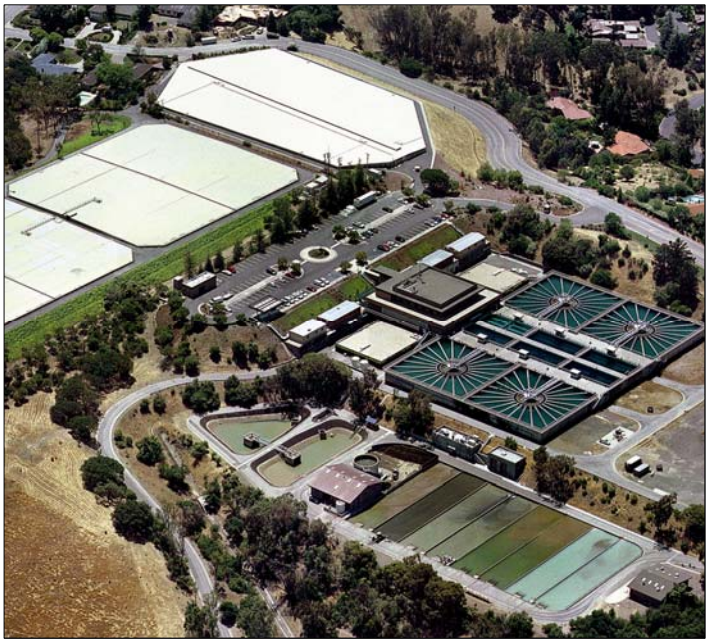
OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs, as the project does not significantly alter the existing facilities or modes of operation.

USEFUL LIFE:

Structures – 50 Years; Mechanical Equipment – 15 Years; Electrical Equipment – 10 Years

Project	**RWTP Reliability Improvement**
Program	Water Supply – Treatment
Priority No.	46
Project No.	93294057
District Contact	Sandy Oblonsky soblonsky@valleywater.org



Rinconada Water Treatment Plant

PROJECT DESCRIPTION

This project plans, designs, and constructs improvements at Rinconada Water Treatment Plant (RWTP) to accomplish the following objectives:

- Improve service factors by increasing clarification and filtration capacity.
- Provide for taste and odor control improvement, reduction of filter loading by addition or modification of filters, and washwater clarification.

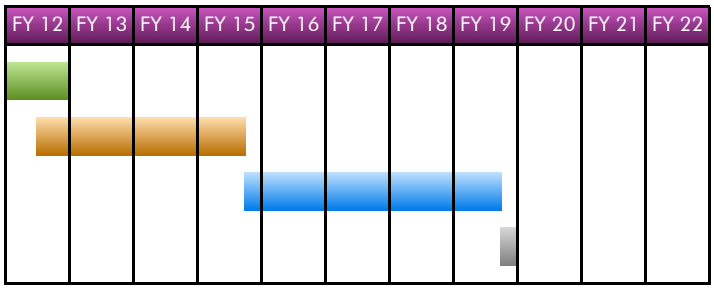
PROJECT LOCATION

★ Project Location

SCHEDULE & STATUS

July 2009 to September 2018

Phase	Cost
Plan	2,143
Design	17,181
Construct	164,501
Closeout	120
	183,945



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures						Total
Project	FY11	FY12	FY13	FY14	FY15	FY16	FY17	Future	
93294057-RWTP Reliability Improvement	1,344	730	9,208	7,990	48,170	51,120	50,110	15,280	183,952
with inflation	1,344	730	9,208	8,477	52,637	57,536	58,091	18,574	206,596

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests					Total
Project	FY11	FY12		FY13	FY14	FY15	FY16	FY17	Future	
93294057-RWTP Reliability Improvement	2,456	321	703	8,505	8,477	52,637	57,536	58,091	18,574	206,596

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	206,596
Other Funding Source	0
Total	206,596

OPERATING COST IMPACTS

The completion of this project is anticipated to increase operating costs by approximately $1.4 million per year, beginning in FY 2019. Increases are for routine maintenance and operation of new equipment.

USEFUL LIFE:

Media – 20 Years; Structures – 50 Years; Equipment – 15 Years

Project	**RWTP Standby Power Upgrade**
Program	Water Supply – Treatment
Priority No.	58
Project No.	93294035
District Contact	Frank Maitski fmaitski@valleywater.org

Temporary location of generator in the Rinconada parking lot.

PROJECT DESCRIPTION

This project plans, designs, and constructs a new backup generator at Rinconada Water Treatment Plant (RWTP) to accomplish the following objectives:

- Improve the reliability and functional performance of the existing power supply systems by construction of a permanent facility.
- Ensure that the water treatment plant can continue to efficiently and reliably deliver treated water during utility power outage.
- Meet all code requirements.

PROJECT LOCATION

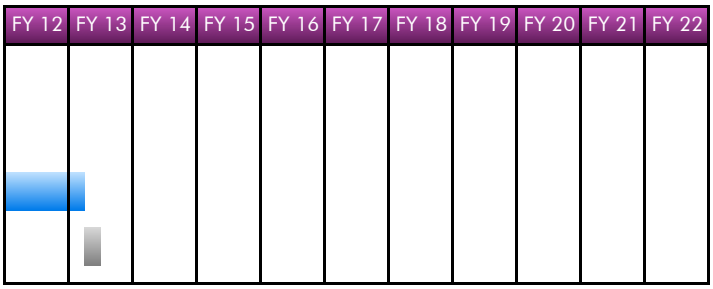
★ Project Location

SCHEDULE & STATUS

March 2002 to December 2012

Planning phase is complete. Some planning activities done in operations - 93292055.

Phase	Cost
Plan	n/a
Design	n/a
Construct	n/a
Closeout	n/a
	n/a



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY11	FY12	FY13	FY14	FY15	FY16	FY17	Future	
93294035-RWTP Standby Power Upgrade	1,705	308	212	0	0	0	0	0	2,225
with inflation	1,705	308	212	0	0	0	0	0	2,225

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY11	FY12		FY13	FY14	FY15	FY16	FY17	Future	
93294035-RWTP Standby Power Upgrade	1,913	185	85	127	0	0	0	0	0	2,225

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	2,225
Other Funding Source	0
Total	2,225

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs as the project does not alter the mode of operation.

USEFUL LIFE: 15+ Years

Project	**RWTP Treated Water Valves Upgrade**
Program	Water Supply – Treatment
Priority No.	87
Project No.	93294056
District Contact	Katherine Oven koven@valleywater.org

This structure, housing the chemical storage tanks at RWTP, will be seismically upgraded.

PROJECT DESCRIPTION

This project plans, designs, and constructs modifications to the Rinconada Water Treatment Plant (RWTP) including seismically strengthening the chemical storage structures; replacing/upgrading the valves and appurtenants used to control treated water at the clearwells and the Ronconada Reservoir; repairing a damaged baffle wall in the Rinconada Reservoir; and installing a 48-inch magnetic flow meter on the treatment plant's treated water effluent pipeline. Consistent with the Facility Renewal Program (FRP), this project will accomplish the following objectives:

- Ensure plant operational reliability.
- Improve ability to maintain the plant.
- Allow for better isolation of the treated water control valves for future work.
- Achieve greater accuracy in measuring treated water deliveries.

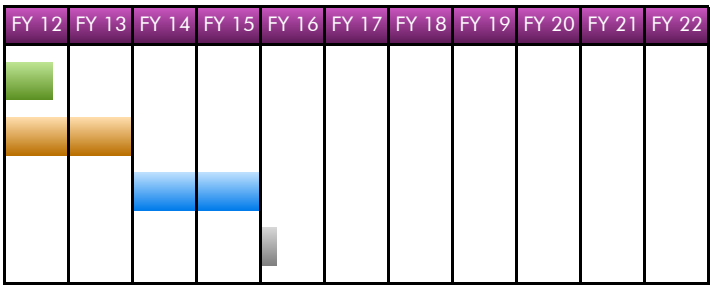
PROJECT LOCATION

★ Project Location

SCHEDULE & STATUS

July 2009 to September 2015

Phase	Cost
Plan	498
Design	974
Construct	3,475
Closeout	25
	4,972



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY11	FY12	FY13	FY14	FY15	FY16	FY17	Future	
93294056-RWTP Treated Water Valves Upgrade	500	287	685	2,975	500	25	0	0	4,972
with inflation	500	287	685	3,156	546	28	0	0	5,203

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY11	FY12		FY13	FY14	FY15	FY16	FY17	Future	
93294056-RWTP Treated Water Valves Upgrade	978	99	290	395	3,156	546	28	0	0	5,203

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	5,203
Other Funding Source	0
Total	5,203

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs, as the project does not significantly alter the existing facilities or modes of operations.

USEFUL LIFE: 40 Years

Project	**Small Capital Improvements, Water Treatment**
Program	Water Supply – Treatment
Priority No.	67
Project No.	93764004
District Contact	Sandy Oblonsky soblonsky@valleywater.org

Sludge pond sediment removal at Santa Teresa Water Treatment Plant

PROJECT DESCRIPTION

This project provides resources for the improvement of small capital investments that replace or extend the lifetime of an asset. This project implements a systematic approach of equipment replacement and renewal at the three water treatment plants and laboratory by designing and constructing improvements identified as part of the District's 10-year asset management program. Typical activities included in this project include pump, motor, instrumentation and valve replacement; chemical tank repairs; and large-scale renewal and replacement activities like clarifier mechanism overhaul and replacement. Planned projects to complete in FY 2013 include:

- Prepare scope of work for floc mixer & motor refurbishment and purchase parts at Santa Teresa WTP.
- Replace freight elevator at Rinconada WTP.
- Replace water pump and motor (backwash pump) at Rinconada WTP.
- Replace chilled water fan coils at Rinconada WTP.
- Replace laboratory equipment.
- Replace Flowmeter, pre-cast vault, FCA, sump pump & telemetry in East PL treated water vault at Penitencia WTP.
- Repair lining on OCL storage tanks (1, 2, and 3) at Penitencia WTP.
- Repair OCL transfer pumps & motors 1, 2, and 3.
- Plan & Design scope of work for sludge ponds liner replacement at Penitencia WTP.

PROJECT LOCATION

★ Project Location

SCHEDULE & STATUS

This project is part of a regularly scheduled 10-year maintenance and asset management program.

Traditional planning, design, and construction phases do not apply.

Phase	Cost
Plan	n/a
Design	n/a
Construct	n/a
Closeout	n/a
	n/a

FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY11	FY12	FY13	FY14	FY15	FY16	FY17	Future	
93764004-Small Capital Improvements, Water Treatment	n/a	1,073	1,065	1,327	1,297	1,297	1,297	6,485	13,841
with inflation	n/a	1,073	1,065	1,408	1,417	1,460	1,504	8,222	16,149

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY11	FY12		FY13	FY14	FY15	FY16	FY17	Future	
93764004-Small Capital Improvements, Water Treatment	n/a	1,148	0	1,065	1,408	1,417	1,460	1,504	8,222	16,224

Adjusted Budget includes adopted budget plus approved budget adjustments. Small Capital Improvement projects do not carry forward unspent funds from one fiscal year to the next. Approved funding in FY13 exceeds actual expenditures by $75,000. Execess funds are returned to fund reserves at the close of each fiscal year and new funding is provided in the next fiscal year.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	16,224
Other Funding Source	0
Total	16,224

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs, as the project does not significantly alter the existing facilities or modes of operation.

USEFUL LIFE: Not Available

Project	**STWTP Incompatible Materials**
Program	Water Supply – Treatment
Priority No.	66
Project No.	93284030
District Contact	Katherine Oven koven@valleywater.org

New double contained piping installed to separate incompatible chemicals

PROJECT DESCRIPTION

This project plans, designs, and constructs improvements at Santa Teresa Water Treatment Plant (STWTP) to separate incompatible chemicals in the chemical feed area, chemical trenches and storage facilities to meet Hazardous Material (HAZMAT) storage regulations.

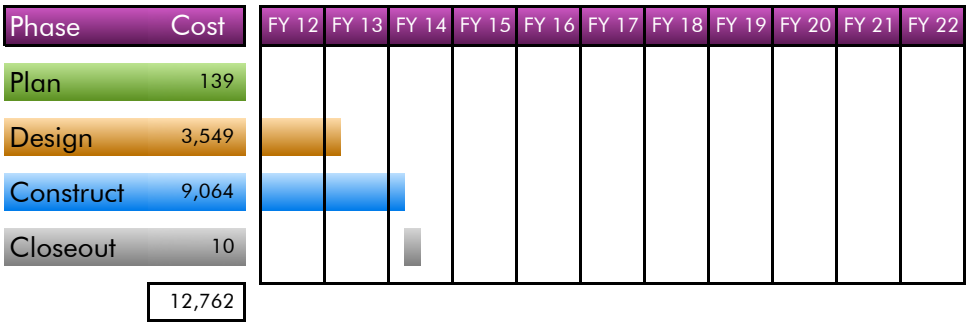
PROJECT LOCATION

★ Project Location

SCHEDULE & STATUS

July 2001 to December 2013

Planning phase is complete.



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures						Total
Project	FY11	FY12	FY13	FY14	FY15	FY16	FY17	Future	
93284030-STWTP Incompatible Materials	8,160	1,250	3,014	338	0	0	0	0	12,762
with inflation	8,160	1,250	3,014	359	0	0	0	0	12,783

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests					Total
Project	FY11	FY12		FY13	FY14	FY15	FY16	FY17	Future	
93284030-STWTP Incompatible Materials	7,851	1,559	0	3,014	359	0	0	0	0	12,783

Adjusted Budget includes adopted budget plus a planned budget adjustment for $12,000.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	12,783
Other Funding Source	0
Total	12,783

OPERATING COST IMPACTS

The completion of this project is anticipated to increase operating costs by approximately $4,500 per year, beginning in FY 2015. This project primarily replaces existing equipment with similar new equipment and a net increase of four mixers, which will require additional preventive maintenance.

USEFUL LIFE: Mechanical Elements – 35+ Year; Structural Elements – 50+ Years

Project	**Water Protection**
Program	Water Supply – Treatment
Priority No.	34
Project No.	94084005
District Contact	Katherine Oven koven@valleywater.org

Security inspection of vehicles entering Penitencia Water Treatment Plant.

PROJECT DESCRIPTION

This project plans, designs, and constructs security modifications at the District's Water Utility facilities, in response to a security vulnerability assessment completed in 2003, to improve security and reduce terrorist threats to water service reliability.

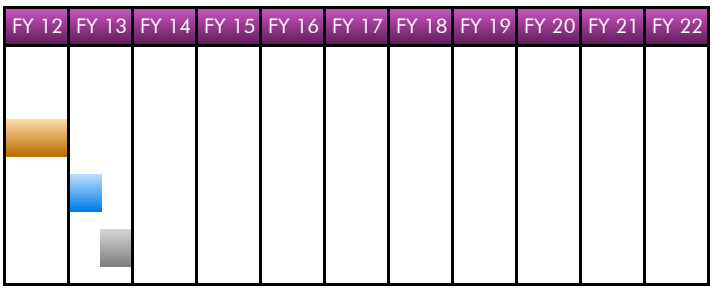
PROJECT LOCATION

This project will construct security improvements at the District's three water treatment plants and other Water Utility facilities. No project map is provided.

SCHEDULE & STATUS

June 2004 to April 2013

Phase	Cost
Plan	1,416
Design	679
Construct	3,892
Closeout	100
	6,087



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures						Total
Project	FY11	FY12	FY13	FY14	FY15	FY16	FY17	Future	
94084005-Water Protection	1,941	265	3,899	0	0	0	0	0	6,105
with inflation	1,941	265	3,899	0	0	0	0	0	6,105

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY11	FY12		FY13	FY14	FY15	FY16	FY17	Future	
94084005-Water Protection	7,599	131	5,524	0	0	0	0	0	0	7,730

Adjusted Budget includes adopted budget plus approved budget adjustments. Approved funding exceeds planned expenditures by $1,625,000. Excess funds will be returned to reserves at the end of the project.

FUNDING SOURCES

(in thousands $)

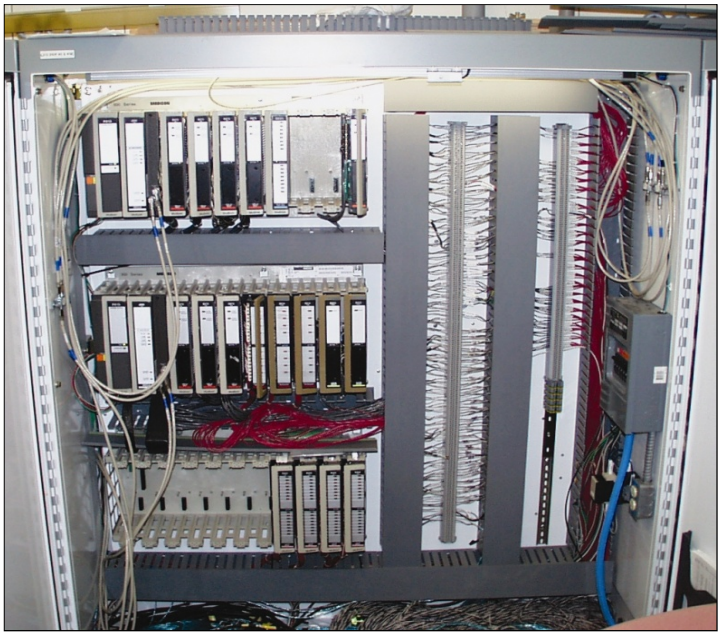
SCVWD Water Utility Enterprise Fund	7,730
Other Funding Source	0
Total	7,730

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease operating costs, as the project does not significantly alter the existing facilities or modes of operations.

USEFUL LIFE: Not Available

Project	**WTP I/O Cards and Trunk Cables Upgrade**
Program	Water Supply – Treatment
Priority No.	68
Project No.	93084009
District Contact	Katherine Oven koven@valleywater.org

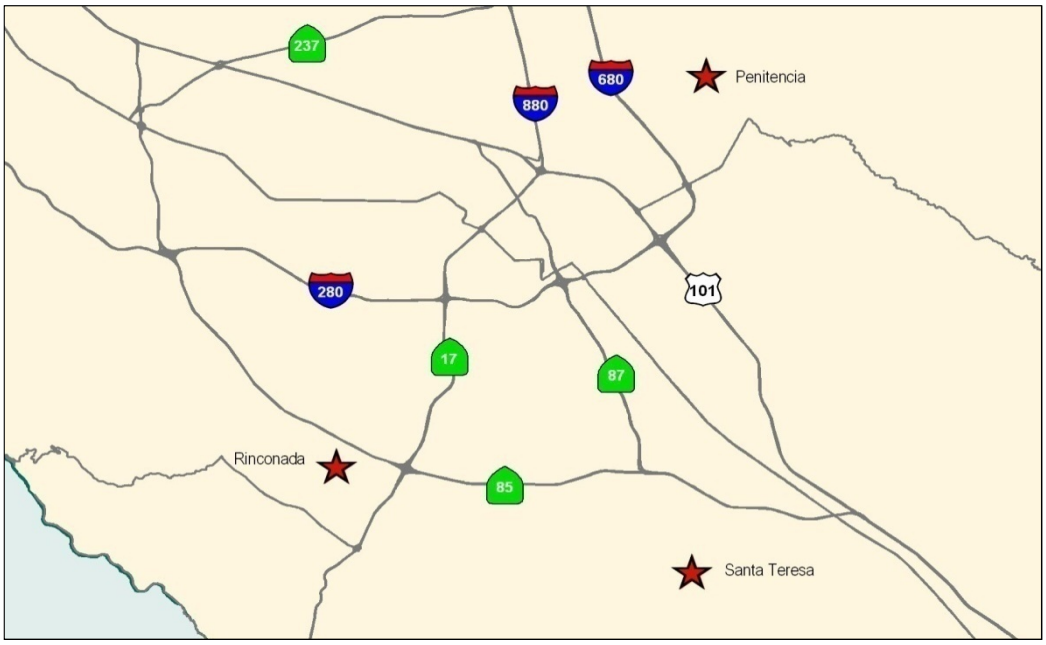


Existing I/O cards will be replaced.

PROJECT DESCRIPTION

This project upgrades the Supervisory Control and Data Acquisition (SCADA) hardware and software and replaces trunk cables at the District's three water treatment plants (WTP) to ensure operational reliability.

PROJECT LOCATION



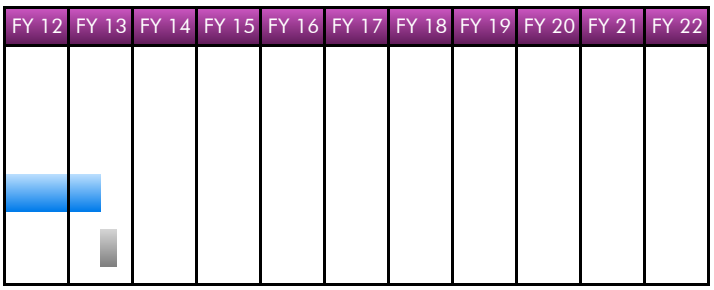
★ Project Location

SCHEDULE & STATUS

July 2003 to March 2013

Planning phase is complete. Design and construction phases overlap due to the phased approach for installation of I/O modules and then trunk cables.

Phase	Cost
Plan	212
Design	313
Construct	4,067
Closeout	60
	4,652



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY11	FY12	FY13	FY14	FY15	FY16	FY17	Future	
93084009-WTP I/O Cards and Trunk Cables Upgrade	4,109	399	144	0	0	0	0	0	4,652
with inflation	4,109	399	144	0	0	0	0	0	4,652

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY11	FY12		FY13	FY14	FY15	FY16	FY17	Future	
93084009-WTP I/O Cards and Trunk Cables Upgrade	5,286	0	778	0	0	0	0	0	0	5,286

Adjusted Budget includes adopted budget plus approved budget adjustments. Project funding exceeds expenditures by approximately $634,000. Excess funding will be returned to reserves at the end of the project.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	5,286
Other Funding Source	0
Total	5,286

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease operating costs, as the project does not significantly alter the existing facilities or modes of operation.

USEFUL LIFE: 10+ Years

Project	**Silicon Valley Advanced Water Purification Center**
Program	Water Supply – Recycled Water
Priority No.	17
Project No.	91184008
District Contact	Katherine Oven koven@valleywater.org

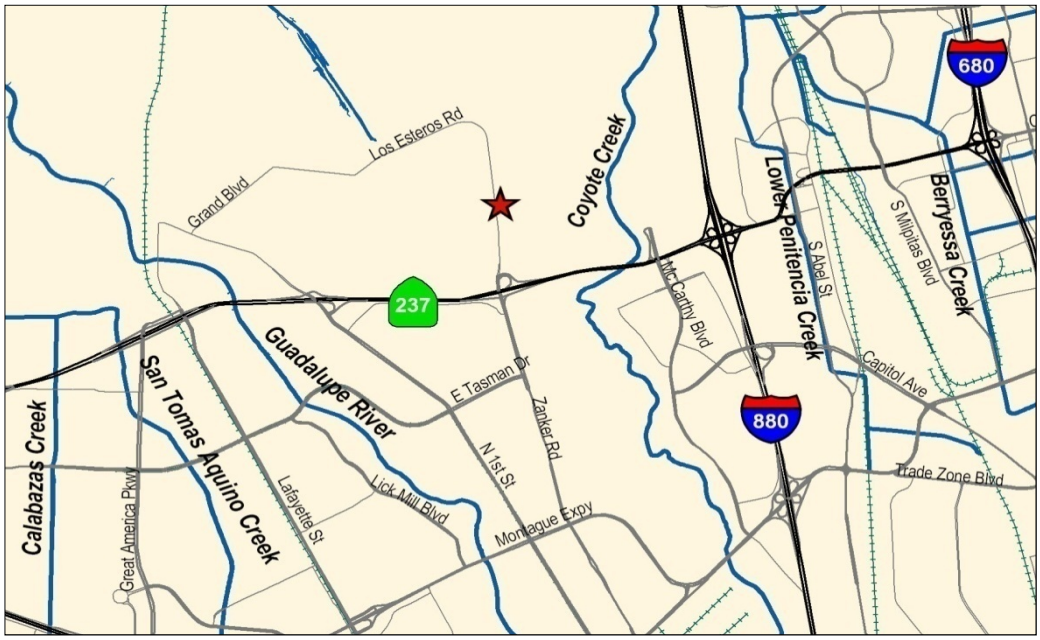
Process building at the SVAWPC that houses the microfiltration, reverse osmosis, and ultraviolet disinfection equipment

PROJECT DESCRIPTION

This project plans, designs, and constructs a 10-mgd (million-gallons-per-day) Silicon Valley Advanced Water Purificaton Center (SVAWPC) within the footprint of the South Bay Water Recycling's Water Pollution Control Plant (WPCP) in San Jose, to accomplish the following objectives:

- Improve recycled water quality to enhance marketability.
- Increase the operational reliability and flexibility of recycled water.
- Retain existing customers who may have water quality (especially salinity) issues.
- Improve public acceptance of recycled water.
- Maximize water recycling alternatives.
- Reduce fresh water effluent discharges into San Francisco Bay to protect endangered species.
- Increase tertiary treatment capacity for the water pollution control plant.
- Preserve options for future groundwater recharge and reuse.

PROJECT LOCATION



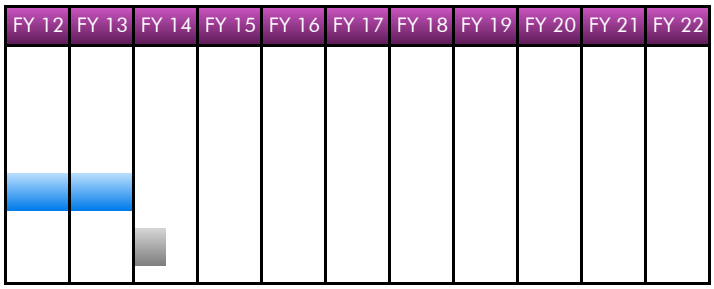
★ Project Location

SCHEDULE & STATUS

January 2004 to December 2013

Construction in FY 2011 begins with 6 months of early earth work.

Phase	Cost
Plan	2,322
Design	3,083
Construct	58,989
Closeout	122
	64,516



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY11	FY12	FY13	FY14	FY15	FY16	FY17	Future	
91184008-Silicon Valley Advanced Water Purification Center	43,053	18,861	2,302	300	0	0	0	0	64,516
with inflation	43,053	18,861	2,302	318	0	0	0	0	64,534

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY11	FY12		FY13	FY14	FY15	FY16	FY17	Future	
91184008-Silicon Valley Advanced Water Purification Center	44,330	18,425	841	1,461	318	0	0	0	0	64,534

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	40,074
City of San Jose	9,400
California Department of Water Resources	2,935
United States Bureau of Reclamation (USBR) ARRA	8,125
USBR Federal Allocation ($5.5M)	4,000
Total	**64,534**

OPERATING COST IMPACTS

The completion of this project is anticipated to increase the District's operating costs by approximately $1.75 million per year, beginning in FY 2014. The City of San Jose will also be responsible for contributing the same amount to cover total annual operations costs of approximately $3.5 million. Total cost includes labor, membranes replacement, energy, UV lamp replacement, chemicals, and other necessary items.

USEFUL LIFE: 20-30 Years

Project	**South County Recycled Water Pipeline**
Program	Water Supply – Recycled Water
Priority No.	16
Project No.	91094007s
District Contact	Katherine Oven koven@valleywater.org

Recycled water purple pipeline waiting to be laid during construction of Immediate Term project.

PROJECT DESCRIPTION

This project plans, designs, and constructs water recycling systems based on the South County Recycled Water Master Plan report that the District and South County Regional Wastewater Authority (SCRWA) Boards accepted in December 2004 to operate and expand the South County Recycled Water System.

The Master Plan report presents a 20-year capital program for expanding water recycling in South County in three phases; Immediate Term, Short Term, and Long Term:

- Gilroy Pipelines (Immediate Term) includes design and construction of recycled water storage, pumping, and distribution facilities for agricultural use near the SCRWA treatment plant (91094007).
- Gilroy Pipelines and Reservoir (Short Term) constructs about 42,000 feet of 16- to 30-inch pipelines from the SCRWA treatment plant along Southside Drive and Luchessa Avenue to the Glen Loma development, and a 3-million-gallon storage reservoir (91094008 & 91094009).
- Gavilan, Hecker Pass, and Morgan Hill Scalping Plant (Long Term) consists of pipeline extensions of the Gilroy Sports Park to serve the Gavilan College area, additional distribution piping in the Hecker Pass area, a Morgan Hill scalping plant and 2-mgd expansion of the booster pump station (91C40219).

The project is funded for the immediate- and short-term phases only. The scope, schedule, costs, and funding sources for the long-term project will be determined pending Board consideration of alternatives for responding to financial constraints.

PROJECT LOCATION

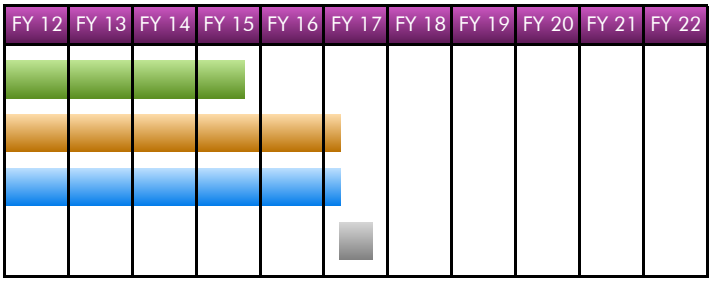
No map is provided.

SCHEDULE & STATUS

July 2005 to April 2017

The display shows Phase 1A & 1B of the Short-Term project only. The Immediate-Term project is complete. Some planning for both projects was done in a separate project.

Phase	Cost
Plan	5,479
Design	3,976
Construct	10,396
Closeout	130
	19,981



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY11	FY12	FY13	FY14	FY15	FY16	FY17	Future	
91094007-Recycled Water South County Masterplan - Immediate Term	3,257	0	0	0	0	0	0	0	3,257
with inflation	3,257	0	0	0	0	0	0	0	3,257
91094008-Recycled Water South County Masterplan - Short Term 1A	4,476	510	0	0	0	0	0	0	4,986
with inflation	4,476	510	0	0	0	0	0	0	4,986
91094009-South County Recycled Water Pipeline - Short Term 1B	0	425	953	1,330	1,330	7,000	700	0	11,738
with inflation	0	425	953	1,411	1,453	7,879	811	0	12,932
TOTAL	**7,733**	**510**	**953**	**1,330**	**1,330**	**7,000**	**700**	**0**	**19,981**
with inflation	**7,733**	**510**	**953**	**1,411**	**1,453**	**7,879**	**811**	**0**	**21,175**

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY11	FY12		FY13	FY14	FY15	FY16	FY17	Future	
91094007-Recycled Water South County Masterplan - Immediate Term	3,257	0	0	0	0	0	0	0	0	3,257
91094008-Recycled Water South County Masterplan - Short Term 1A	10,153	290	5,457	0	0	0	0	0	0	10,443
91094009-South County Recycled Water Pipeline - Short Term 1B	0	425	0	953	1,411	1,453	7,879	811	0	12,932
TOTAL	**13,410**	**715**	**5,457**	**953**	**1,411**	**1,453**	**7,879**	**811**	**0**	**26,632**

Adjusted Budget includes adopted budget plus approved budget adjustments. Approved funding exceeds planned expenditures for the Short-Term 1A project by aproximately $5,457,000. Excess funding will be returned to reserves at the end of the project.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	23,513
South County Regional Wastewater Authority	708
United States Bureau of Reclamation (USBR) ARRA	1,295
United States Bureau of Reclamation (USBR)	1,116
Total	**26,632**

OPERATING COST IMPACTS

Estimated District share of the operating and maintenance costs are $8,000 per year for the Immediate-Term phase, beginning in FY 2007 and an additional $20,000 for the Short-Term phase, beginning in FY 2018. Increases for Immediate Term are primarily labor costs for operating the new 3mg reservoir and its pump station. Increases for Short Term are labor and materials to maintain the 42,000 feet of new pipeline, exercising valves and cathodic protection.

USEFUL LIFE: Pipelines – 50 Year; Pumps – 20 Years

FLOOD PROTECTION OVERVIEW

The District manages approximately 800 miles of creeks in Santa Clara County to meet the Board's Ends Policy E–3, "There is a healthy and safe environment for residents, businesses and visitors, as well as for future generations." The district's goals are further defined in E-3.1, "Natural flood protection for residents, businesses, and visitors" and E-3.2, "Reduced potential for flood damages." The 800 miles of creeks are located in five watersheds: Lower Peninsula, West Valley, Guadalupe, Coyote, and Uvas/Llagas. The District administers an asset management program for its flood protection infrastructure. The program includes a schedule for maintenance and rehabilitation to ensure that each facility functions as intended over its useful life.

Fifty years of working for flood protection has significantly reduced the intensity and frequency of flooding in Santa Clara County. By 2005 the District had provided flood protection to 93,253 of the 166,526 parcels in the flood plain and another 4,204 have been protected since then.

The voters in Santa Clara County have supported the District's flood protection efforts by approving benefit assessment funding in 1982, 1986, and 1990. Also, in 2000, voters approved a special tax to fund the continuation of the District's flood protection capital improvements, specifically, moving upstream from the completed downstream work or starting new work on creeks that have not had flood protection work.

Lower Peninsula Watershed

Major Capital Improvements Completed

- Adobe Creek from El Camino to Rhus Ridge
- Barron Creek
- Matadero Creek from Palo Alto Flood Basin to Barron Creek
- Palo Alto Flood Basin
- Stevens Creek from Highway 101 to Homestead Road

Major Capital Improvements Identified in the CIP

- Permanente Creek from S.F. Bay to Foothill Expressway (Clean, Safe Creeks project)
- San Francisquito Creek from S.F. Bay to Searsville Dam (Clean, Safe Creeks project)

West Valley Watershed

Major Capital Improvements Completed

- Calabazas Creek from Guadalupe Slough to Miller Avenue
- San Tomas Creek from Southern Pacific Railroad to Cabrillo Avenue
- Saratoga Creek from San Tomas Creek to Lawrence Expressway

Major Capital Improvements Identified in the CIP

- Calabazas Creek, Miller Avenue to Wardell Road (Clean, Safe Creeks project)
- Sunnyvale East and West Channels (Clean, Safe Creeks project)

Guadalupe Watershed

Major Capital Improvements Completed

- Alamitos Creek
- Guadalupe River–Lower from Alviso Marina to Interstate 880
- Guadalupe River–Downtown from Interstate 880 to Interstate 280

Major Capital Improvements Identified in the CIP

- Guadalupe River–Upper, Interstate 280 to Blossom Hill Road (Clean, Safe Creeks project)

Coyote Watershed

Major Capital Improvements Completed

- Coyote Creek from S.F. Bay to Montague Expressway
- Lower Penitencia Creek from Coyote Creek to Tasman Drive
- Lower Silver Creek from Coyote Creek to Interstate 680 (Reaches 1-3)
- Wrigley Ford Creek

Major Capital Improvements Identified in the CIP

- Berryessa Creek from Lower Penitencia Creek to Calaveras Boulevard
- Berryessa Creek from Calaveras Boulevard to Old Piedmont Road (Clean, Safe Creeks project)
- Coyote Creek Montague Expressway to Interstate 280 (Clean, Safe Creeks project)
- Upper Penitencia Creek from Coyote Creek to Dorel Drive
- Lower Silver Creek from Interstate 680 to Lake Cunningham (Reaches 4-6)

Uvas/Llagas Watershed

Major Capital Improvements Completed

- Llagas Creek–Lower from Pajaro River to Buena Vista Road
- Uvas Creek

Major Capital Improvements Identified in the CIP

- Llagas Creek–Upper, Buena Vista Road to Wright Avenue (Clean, Safe Creeks project)
- Llagas Creek Capacity Restoration from Buena Vista Road to Pajaro River

PRIORITY PROCESS AND FINANCIAL ANALYSIS

A rigorous priority setting process was conducted to ensure that the new flood protection projects proposed to be added to the Fiscal Year 2012/13 CIP reflect the Board's priorities. The priority criteria used are included in Appendix A.

A financial analysis of the Watershed and Steam Stewardship Fund and Clean, Safe Creeks Fund, the funding sources for flood protection capital improvements, was conducted to determine if there are limitations to funding all of the projects proposed for the Fiscal Year 2012/13 CIP.

Results of the prioritization process and financial analysis are summarized in Appendix B.

The watersheds have benefited from ARRA Federal stimulus money, USACE earmarked funds to complete construction of the downtown portion of the Guadalupe River Project. The District will also receive $20.6 million from NRCS to help construct Lower Silver Creek, from I-680 to Lake Cunningham (Reaches 4-6).

In January of 2012 the District was awarded a $25 million Proposition 1E Grant from the Department of Water Resources (DWR) to complete the Lower Silver Creek and Lake Cunningham projects.

For the past several years the District has made a concerted effort to reduce the watershed operations costs and believe that these reductions can be sustained over the next 5-10 years. However, the continued economic downturn has had a larger than expected impact on property tax revenue.

The following high priority flood protection projects, unfunded or partially funded, are of major concern to meet the Board's Ends Policy E–3, "There is a healthy and safe environment for residents, businesses and visitors, as well as for future generations."

Partially Funded and Unfunded CIP Projects

- San Francisco Bay Shoreline - Early Implementation (Construction is unfunded; $6 million in FY2019/20)
- Upper Penitencia Creek, Coyote to Dorel Drive (Construction is unfunded; $25.7 million in FY2017-19)
- San Francisco Bay Shoreline Project (Design and Construction is unfunded)
- Coyote Creek, Montague Expressway to Interstate 280 (Construction is unfunded)
- Upper Berryessa Creek, Interstate 680 to Old Piedmont Road (Planning, Design, and Construction is unfunded; $20 million)

Flood Protection Capital Improvements

The following table is a project funding schedule for flood protection capital improvements resulting from this year's priority process and financial analysis. Detailed information for each project can be found in this document on the following pages in the order presented in this table. The chart also identifies partially funded projects and estimated unspent appropriation from FY 2011/12.

Flood Protection Capital Improvements ($K)

Project Number	PROJECT NAME	Through FY11	FY12	FY12 Unspent	FY13	FY14	FY15	FY16	FY17	FY18-22	TOTAL
	LOWER PENINSULA WATERSHED										
10244001s	Permanente Creek, SF Bay to Foothill Expressway	33,487	915	10,350	10	20,922	874	315	-	-	56,523
10284007s	San Francisquito Creek, SF Bay thru Searsville Dam	6,615	2,524	1,191	3,593	4,512	-	-	-	-	17,244
	WEST VALEY WATERSHED										
26104001s	Calabazas Creek, Miller Avenue to Wardell Road	13,835	-	2,198	-	-	-	-	-	-	13,835
26074002	Sunnyvale East and West Channels	8,014	3,829	1,376	2,411	44,325	37,868	56	-	-	96,503
	GUADALUPE WATERSHED										
30154013s	Guadalupe River–Downtown, I-880 to I-280	105,446	371	2,067	-	-	-	-	-	-	105,817
26154001s	Guadalupe River–Upper, I-280 to Blossom Hill Road	101,177	11,005	15,182	-	-	4,303	7,490	4,631	5,008	133,614
	COYOTE WATERSHED										
26174041s	Berryessa Creek, Calaveras Boulevard to Interstate 680	11,918	107	4,302	2,565	15,020	10,111	157	-	-	39,878
40174004	Berryessa Creek, Lower Penitencia Ck to Calaveras Blvd	36,716	2,236	-	1,535	484	262	10,056	713	947	52,949
26174043	Coyote Creek, Montague Expressway to Interstate 280	11,878	3,380	2	738	15,226	3,060	377	-	-	34,659
40264011	Lake Cunningham Improvements	101	1,536	-	552	6,518	-	-	-	-	8,707
40334005	Lower Penitencia Ck Capacity Restoration, Berryessa to Coyote Cks.	156	550	-	581	5,726	113	60	46	24	7,256
40264007s	Lower Silver Creek, I-680 to Cunningham (Reach 4-6)	49,472	15,607	71	634	106	110	168	-	-	66,097
40324003s	Upper Penitencia Creek, Coyote Creek to Dorel Drive	15,889	1,545	1,838	-	116	-	-	-	-	17,550
	UVAS LLAGAS WATERSHED										
50284010	Llagas Creek–Lower, Capacity Restoration, Hwy 152 to Pajaro River	2,143	1,323	414	152	578	1,044	2,054	319	-	7,613
26174051s	Llagas Creek–Upper, Buena Vista Road to Wright Avenue	20,467	4,073	1,069	1,265	8,594	5,654	3,742	232	-	44,027
	MULTIPLE WATERSHEDS										
00044026s	San Francisco Bay Shoreline - Planning	11,659	584	498	-	-	-	-	-	-	12,243
	TOTAL	428,973	49,585	40,558	14,036	122,127	63,399	24,475	5,941	5,979	714,515

The following table shows funding requirements from each funding source for flood protection capital improvements.

Flood Protection – Funding Sources ($K)

Project Number	PROJECT NAME	Through FY11	FY12	FY12 Unspent	FY13	FY14	FY15	FY16	FY17	FY18-22	TOTAL
	Watershed Stream Stewardship Fund	247,318	23,752	6,881	3,464	13,528	1,529	12,338	1,078	971	303,978
	Clean, Safe Creeks and Natural Flood Protection Fund	181,655	25,833	33,677	10,572	108,599	61,870	12,137	4,863	5,008	410,537
	TOTAL	428,973	49,585	40,558	14,036	122,127	63,399	24,475	5,941	5,979	714,515

FY 2011/12 Funds to be reappropriated

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Project	**Permanente Creek, San Francisco Bay to Foothill Expressway**
Program	Flood Protection – Lower Peninsula Watershed
Priority No.	94
Project No.	10244001s
District Contact	Melanie Richardson mrichardson@valleywater.org

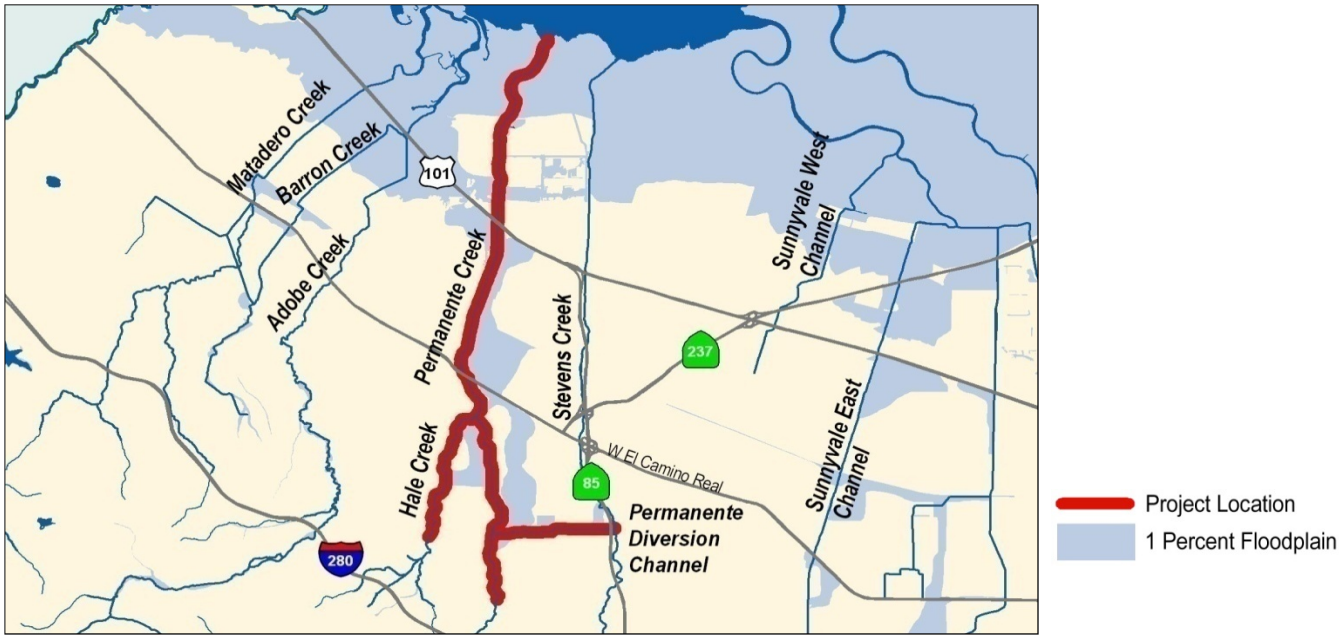
Permanente Creek, looking upstream at the golf course foot bridge

PROJECT DESCRIPTION

This project plans, designs, and constructs improvements along 10.6 miles of Permanente Creek, from San Francisco Bay to Foothill Expressway, Hale Creek from Foothill Expressway to its confluence with Permanente Creek, and the diversion structure between Permanente and Stevens Creeks, to accomplish the following objectives:

- Provide flood protection to 1,664 parcels, including Middlefield Road and Central Expressway.
- Reduce erosion and sedimentation, reduce maintenance costs, and improve safety and stability of the failing channel on Permanente Creek from the San Francisco Bay to Foothill Expressway.
- Provide environmental restoration and enhancement benefits, where opportunities exist.
- Provide recreation enhancements, where opportunities exist.
- Provide natural flood protection by taking a multiple-objective approach.

PROJECT LOCATION

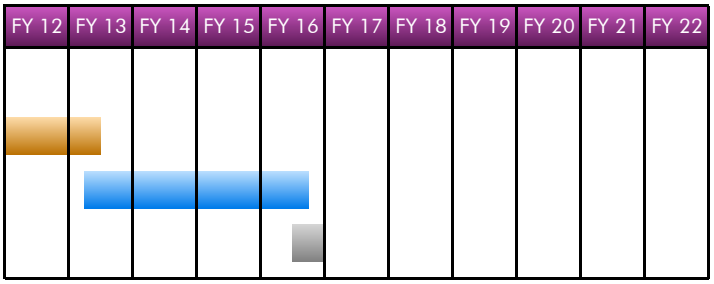


SCHEDULE & STATUS

July 2001 to June 2016

Construction includes two contract phases and three years of plant establishment monitoring.

Phase	Cost
Plan	12,092
Design	11,432
Construct	31,612
Closeout	60
	55,196



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY11	FY12	FY13	FY14	FY15	FY16	FY17	Future	
10244001-Permanente Ck, Bay to Foothill Expwy – Lower Peninsula Fund	17,361	0	10	0	0	0	0	0	17,371
with inflation	17,361	0	10	0	0	0	0	0	17,371
26244001-Permanente Ck, Bay to Foothill Expwy – Clean, Safe Creeks Fund	4,381	2,310	10,054	20,000	800	280	0	0	37,825
with inflation	4,381	2,310	10,054	21,218	874	315	0	0	39,152
TOTAL	21,742	2,310	10,064	20,000	800	280	0	0	55,196
with inflation	21,742	2,310	10,064	21,218	874	315	0	0	56,523

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY11	FY12		FY13	FY14	FY15	FY16	FY17	Future	
10244001-Permanente Ck, Bay to Foothill Expwy – Lower Peninsula Fund	17,361	0	0	10	0	0	0	0	0	17,371
26244001-Permanente Ck, Bay to Foothill Expwy – Clean, Safe Creeks Fund	16,126	915	10,350	0	20,922	874	315	0	0	39,152
TOTAL	33,487	915	10,350	10	20,922	874	315	0	0	56,523

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Watershed Stream Stewardship Fund	17,371
SCVWD Clean, Safe Creeks and Natural Flood Protection Fund	39,152
Total	56,523

OPERATING COST IMPACTS

The completion of this project is anticipated to increase operating costs by approximately $100,000 per year, beginning in FY 2017. Increases in operations and maintenance costs include sediment removal at three flood detention sites, and bypass channel inlet and outlet operations and maintenance.

USEFUL LIFE: 30+ Years

Project	**San Francisquito Creek, San Francisco Bay through Searsville Dam**
Program	Flood Protection – Lower Peninsula Watershed
Priority No.	79
Project No.	10284007s
District Contact	Melanie Richardson mrichardson@valleywater.org

San Francisquito Creek, looking downstream from the Waverly Street Bicycle Bridge between Middlefield Road and El Camino.

PROJECT DESCRIPTION

This project provides coordination and support to the San Francisquito Joint Powers Authority, in partnership with the U.S. Army Corps of Engineers, to complete planning and design documents for an approved project alternative on San Francisquito Creek, from San Francisco Bay through Searsville Dam, to accomplish the following objectives:

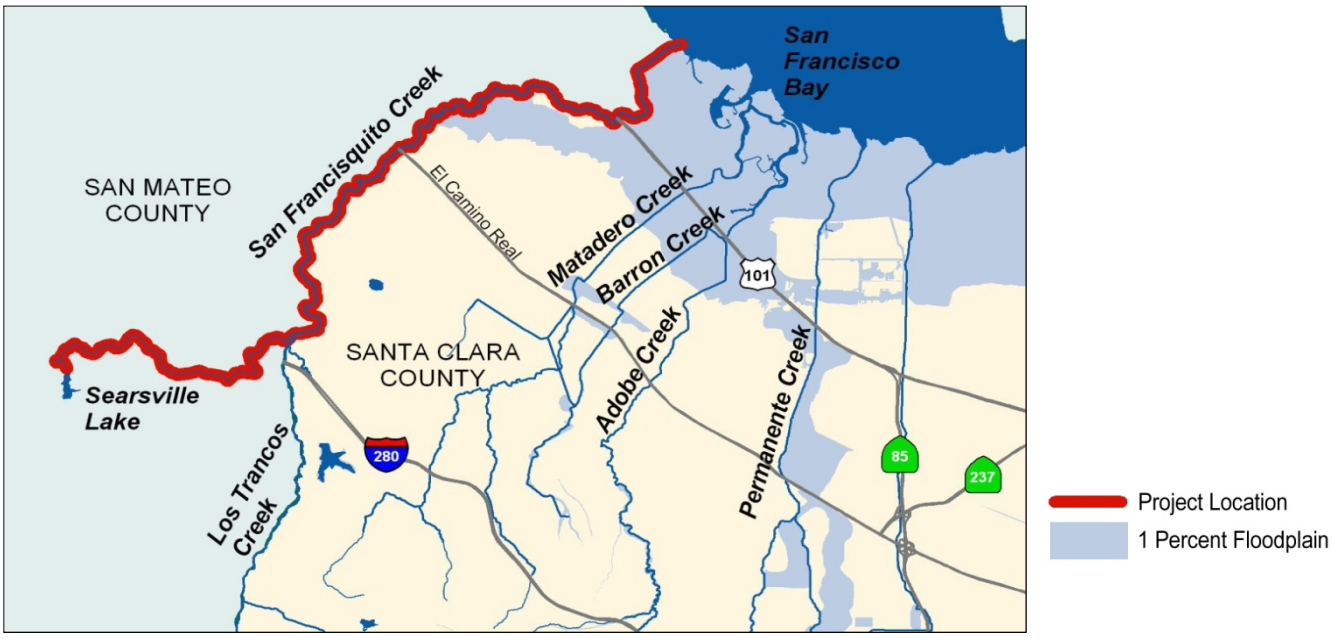
- Provide flood protection.
- Reduce bank erosion and sedimentation-related impacts along San Francisquito Creek.
- Avoid potential adverse impacts on fish and wildlife habitats.
- Minimize impacts to the creek's environmental resources and restore the riparian corridor where feasible.
- Develop public support for the preferred alternative.

This project is primarily funded through the planning and design phases only. Funding sources for a small early implementation construction project will be determined upon completion of its planning and design phases.

This project is accounted for in the following job numbers:

- 10284007 – San Francisquito Creek, San Francisco Bay through Searsville Dam, Lower Peninsula
- 10284008 – San Francisquito Creek, Early Implementation, Lower Peninsula
- 26284001 – San Francisquito Creek, San Francisco Bay through Searsville Dam, Clean Safe Creeks
- 26284002 – San Francisquito Creek, Early Implementation, Clean Safe Creeks

PROJECT LOCATION



SCHEDULE & STATUS

June 2003 to June 2014

(Planning & Partial Design Phases Only)

Phase	Cost
Plan	7,064
Design	8,747
Construct	13
Closeout	-
	15,824

FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY11	FY12	FY13	FY14	FY15	FY16	FY17	Future	
10284007-San Francisquito Ck, Bay-Searsville Dam	3,908	0	0	0	0	0	0	0	3,908
with inflation	3,908	0	0	0	0	0	0	0	3,908
10284008-San Francisquito Ck, Early Implement	1,546	0	0	0	0	0	0	0	1,546
with inflation	1,546	0	0	0	0	0	0	0	1,546
26284001-San Francisquito Ck, Bay-Searsville Dam	0	1,254	2,675	2,953	0	0	0	0	6,882
with inflation	0	1,254	2,675	3,133	0	0	0	0	7,062
26284002-San Francisquito Ck, Early Implement	0	1,240	948	1,300	0	0	0	0	3,488
with inflation	0	1,240	948	1,379	0	0	0	0	3,567
TOTAL	**5,454**	**2,494**	**3,623**	**4,253**	**0**	**0**	**0**	**0**	**15,824**
with inflation	**5,454**	**2,494**	**3,623**	**4,512**	**0**	**0**	**0**	**0**	**16,083**

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY11	FY12		FY13	FY14	FY15	FY16	FY17	Future	
10284007-San Francisquito Ck, Bay-Searsville Dam	4,918	0	1,010	0	0	0	0	0	0	4,918
10284008-San Francisquito Ck, Early Implement	1,697	0	151	0	0	0	0	0	0	1,697
26284001-San Francisquito Ck, Bay-Searsville Dam	0	1,254	0	2,675	3,133	0	0	0	0	7,062
26284002-San Francisquito Ck, Early Implement	0	1,270	30	918	1,379	0	0	0	0	3,567
TOTAL	**6,615**	**2,524**	**1,191**	**3,593**	**4,512**	**0**	**0**	**0**	**0**	**17,244**

Adjusted Budget includes adopted budget plus approved budget adjustments. Funding exceeds planned expenditures by approximately $1,161,000. Excess funding will be returned to reserves upon completion of the project.

FUNDING SOURCES

(in thousands $)

SCVWD Watershed Stream Stewardship Fund	6,615
SCVWD Clean, Safe Creeks and Natural Flood Protection Fund	10,629
Total	**17,244**
Federal Partner–Corps of Engineers	3,000
County Partner–County of San Mateo	1,500

County and Corps participation are for Feasibility Study activities only. Additional funding will be negotiated during subsequent phases.

OPERATING COST IMPACTS

Predominantly Planning and Design Phases only, so no operating budget impacts are expected from those phases; however, operating budget impacts for the small construction project will be determined during the planning phase.

USEFUL LIFE: Not Available

Project	**Calabazas Creek, Miller Avenue to Wardell Road**
Program	Flood Protection – West Valley Watershed
Priority No.	42
Project No.	26104001s
District Contact	Melanie Richardson mrichardson@valleywater.org

Calabazas Creek overtops its banks in February 1986 near Miller Avenue, flooding neighborhood streets.

PROJECT DESCRIPTION

This project plans, design, and constructs improvements along 3.3 miles of Calabazas Creek from Miller Avenue to Wardell Road to accomplish the following objectives:

- Provide one-percent flood protection on Calabazas Creek from Miller Avenue to Wardell Road.
- Reduce erosion, sedimentation, and maintenance costs.
- Provide environmental restoration and enhancement benefits where opportunities exist.
- Provide recreation enhancements where opportunities exist.

This project is accounted for in the following job numbers:

- 26104001—Calabazas Creek, Miller Avenue to Wardell Road
- 20104019—Calabazas Creek, UPRR Bridge Construction

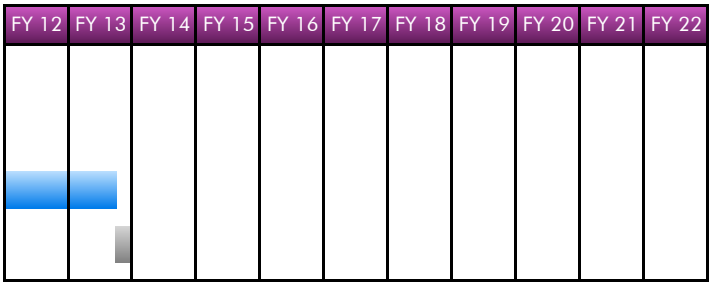
PROJECT LOCATION

SCHEDULE & STATUS

December 2003 to June 2013

Planning phase is complete. Design phase is complete. Construction phase includes 3 years of plant establishment monitoring.

Phase	Cost
Plan	6,027
Design	2,017
Construct	3,925
Closeout	85
	12,054



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY11	FY12	FY13	FY14	FY15	FY16	FY17	Future	
26104001-Calabazas Creek, Miller Avenue to Wardell Road	9,504	1,205	417	0	0	0	0	0	11,126
with inflation	9,504	1,205	417	0	0	0	0	0	11,126
20104019-Calabazas Creek, UPRR Bridge Construction	928	0	0	0	0	0	0	0	928
with inflation	928	0	0	0	0	0	0	0	928
TOTAL	10,432	1,205	417	0	0	0	0	0	12,054
with inflation	10,432	1,205	417	0	0	0	0	0	12,054

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY11	FY12		FY13	FY14	FY15	FY16	FY17	Future	
26104001-Calabazas Creek, Miller Avenue to Wardell Road	12,075	0	1,366	0	0	0	0	0	0	12,075
20104019-Calabazas Creek, UPRR Bridge Construction	1,760	0	832	0	0	0	0	0	0	1,760
TOTAL	13,835	0	2,198	0	0	0	0	0	0	13,835

Adjusted Budget includes adopted budget plus approved budget adjustments. Project Funding exceeds planned expenditures by $1,781,000. Unspent funding will be returned to reserves at the end of the project.

FUNDING SOURCES

(in thousands $)

SCVWD Watershed Stream Stewardship Fund	1,760
SCVWD Clean, Safe Creeks and Natural Flood Protection Fund	12,075
Total	13,835

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease the operating costs. The new channel structure will be very similar to the original structure.

USEFUL LIFE: 30+ Years

Project	**Sunnyvale East and West Channels Improvement**
Program	Flood Protection – West Valley Watershed
Priority No.	80
Project No.	26074002
District Contact	Melanie Richardson mrichardson@valleywater.org

Sunnyvale West Channel looking upstream from Java Drive

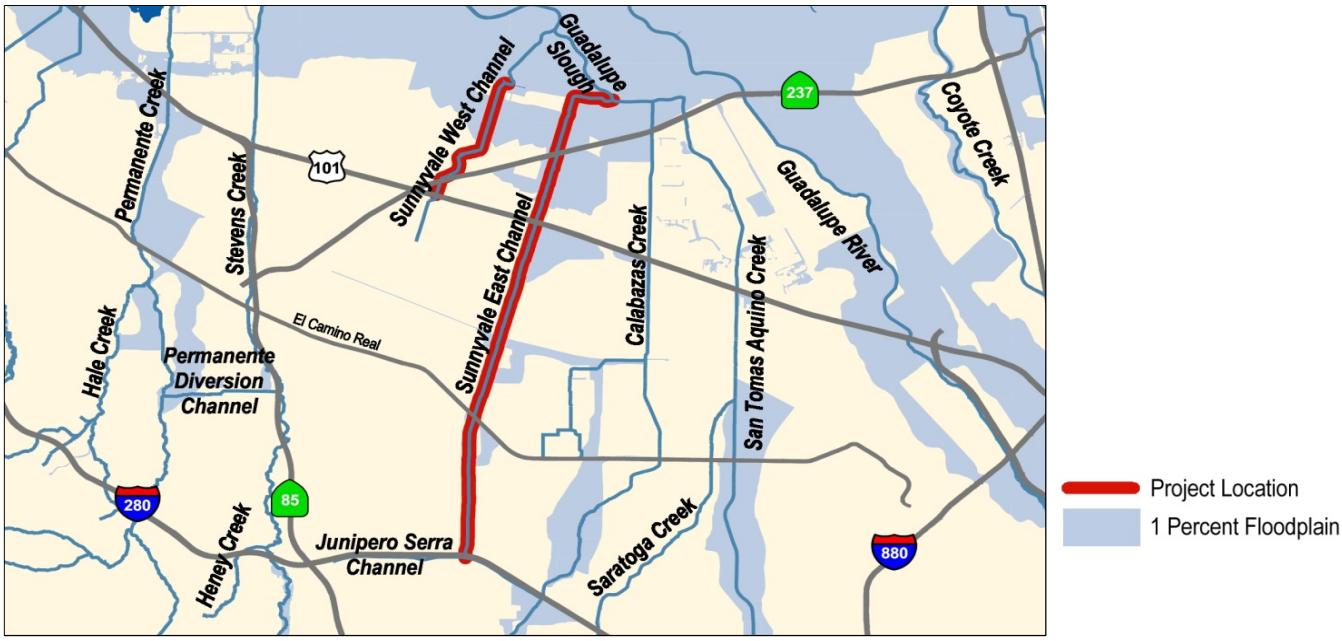
PROJECT DESCRIPTION

This project plans, designs, and constructs improvements to approximately 6.4 miles of the Sunnyvale East Channel, from Guadalupe Slough to Interstate 280, and 2.3 miles of the Sunnyvale West Channel, from Guadalupe Slough to Highway 101, to accomplish the following objectives:

- Provide flood protection to over 1,600 parcels along Sunnyvale East and West Channels.
- Provide environmental enhancement benefits where opportunities exist.
- Provide recreation enhancements where opportunities exist.
- Reduce erosion, sedimentation, and maintenance costs.
- Protect fish and wildlife habitat.

The Sunnyvale East and Sunnyvale West Channels were originally identified as separate projects. In order to improve efficiency by combining efforts, the planning, design and construction phases for both projects will be performed as a single effort.

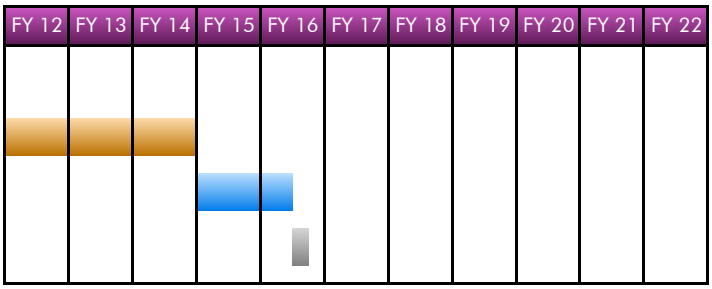
PROJECT LOCATION



SCHEDULE & STATUS

March 2006 to March 2016

Phase	Cost
Plan	6,587
Design	14,791
Construct	69,312
Closeout	50
	90,740



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY11	FY12	FY13	FY14	FY15	FY16	FY17	Future	
26074002-Sunnyvale East and West Channels Improvement	6,817	3,650	3,787	41,781	34,655	50	0	0	90,740
with inflation	6,817	3,650	3,787	44,325	37,868	56	0	0	96,504

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY11	FY12		FY13	FY14	FY15	FY16	FY17	Future	
26074002-Sunnyvale East and West Channels Improvement	8,014	3,829	1,376	2,411	44,325	37,868	56	0	0	96,504

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Clean, Safe Creeks and Natural Flood Protection Fund	96,504
Other Funding Source	0
Total	96,504

OPERATING COST IMPACTS

The completion of this project is anticipated to increase operating costs by approximately $50,000 per year, beginning in FY 2017. Increases in operations and maintenance costs include graffiti removal, mowing and weed control under the levees, and for operation and maintenance of the Pond A4 detention basin.

USEFUL LIFE: 30+ Years

Project	**Guadalupe River—Downtown, Interstate 880 to Interstate 280**
Program	Flood Protection – Guadalupe Watershed
Priority No.	77
Project No.	30154013s
District Contact	Melanie Richardson mrichardson@valleywater.org

West bank of the Guadalupe River, looking upstream from the Coleman Bridge, in September 2005

PROJECT DESCRIPTION

This project partners with the U.S. Army Corps of Engineers (Corps), State of California, City of San Jose, and San Jose Redevelopment Agency to plan, design, and construct improvements along 2.6 miles of the Guadalupe River, from Interstate 880 to Interstate 280, to accomplish the following objectives:

- Provide one-percent flood protection to downtown San Jose's technology and commercial industries and residential neighborhoods.
- Protect and improve water quality of the river.
- Preserve and enhance the river's habitat, fish and wildlife.
- Provide recreational and open space benefits in cooperation with the Corps, City of San Jose, and San Jose Redevelopment Agency.

This project is accounted for in the following job numbers:

- 30154013—Interstate 880 to Heading
- 30154014—Hedding to Coleman
- 30154015—Coleman to Santa Clara
- 30154016—Santa Clara to Park
- 30154017—Woz Way to Interstate 280
- 30154018—Guadalupe River, Escrow

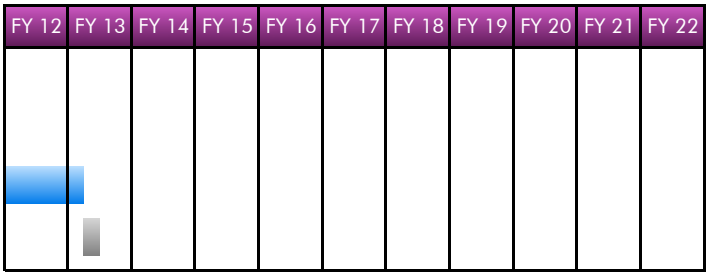
PROJECT LOCATION

SCHEDULE & STATUS

March 1990 to December 2012

Planning, design and most of the planned construction is complete.

Phase	Cost
Plan	n/a
Design	n/a
Construct	n/a
Closeout	n/a
	n/a



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY11	FY12	FY13	FY14	FY15	FY16	FY17	Future	
30154013-Guadalupe Rv—DT, I-880 to Hedding	1,241	566	0	0	0	0	0	0	1,807
with inflation	1,241	566	0	0	0	0	0	0	1,807
30154014-Guadalupe Rv—DT, Hedding-Coleman	10,420	391	0	0	0	0	0	0	10,811
with inflation	10,420	391	0	0	0	0	0	0	10,811
30154015-Guadalupe Rv—DT, Coleman-W. SC	29,642	4,030	927	0	0	0	0	0	34,599
with inflation	29,642	4,030	927	0	0	0	0	0	34,599
30154016-Guadalupe Rv—DT, W. SC to Park	11,354	0	0	0	0	0	0	0	11,354
with inflation	11,354	0	0	0	0	0	0	0	11,354
30154017-Guadalupe Rv—DT, Woz to I-280	10,092	0	0	0	0	0	0	0	10,092
with inflation	10,092	0	0	0	0	0	0	0	10,092
30154018-Guadalupe Rv—DT, Escrow	36,014	0	0	0	0	0	0	0	36,014
with inflation	36,014	0	0	0	0	0	0	0	36,014
TOTAL	**98,763**	**4,987**	**927**	**0**	**0**	**0**	**0**	**0**	**104,677**
with inflation	**98,763**	**4,987**	**927**	**0**	**0**	**0**	**0**	**0**	**104,677**

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY11	FY12		FY13	FY14	FY15	FY16	FY17	Future	
30154013-Guadalupe Rv—DT, I-880 to Hedding	1,813	12	18	0	0	0	0	0	0	1,825
30154014-Guadalupe Rv—DT, Hedding-Coleman	10,804	7	0	0	0	0	0	0	0	10,811
30154015-Guadalupe Rv—DT, Coleman-W. SC	34,750	352	1,430	0	0	0	0	0	0	35,102
30154016-Guadalupe Rv—DT, W. SC to Park	11,842	0	488	0	0	0	0	0	0	11,842
30154017-Guadalupe Rv—DT, Woz to I-280	10,093	0	1	0	0	0	0	0	0	10,093
30154018-Guadalupe Rv—DT, Escrow	36,144	0	130	0	0	0	0	0	0	36,144
TOTAL	**105,446**	**371**	**2,067**	**0**	**0**	**0**	**0**	**0**	**0**	**105,817**

Adjusted Budget includes adopted budget plus approved budget adjustments. Total funding is $1,140,000 more than planned expenditures. Unspent funding will be returned to reserves at the end of the project.

FUNDING SOURCES

(in thousands $)

SCVWD Watershed Stream Stewardship Fund	75,220
State of California	28,943
City of San Jose	1,654
City of San Jose Redevelopment Agency	10,208
Other Funding Source	0
Total	**105,817**
Federal Partner–Corps of Engineers	170,500

OPERATING COST IMPACTS

The completion of this project is anticipated to increase operating costs by approximately $450,000 per year, with approximately $150,000 beginning in FY 2009 and the remaining $300,000 beginning in FY 2013. Increased costs are primarily due to increased channel width and adaptive management and monitoring costs described in the Mitigation and Monitoring Plan.

USEFUL LIFE: 30+ Years

Project	**Guadalupe River–Upper, Interstate 280 to Blossom Hill Road**
Program	Flood Protection – Guadalupe Watershed
Priority No.	77
Project No.	26154001s
District Contact	Melanie Richardson mrichardson@valleywater.org

Flooding from Guadalupe River on Willow Street near the Southern Pacific Railroad Bridge

PROJECT DESCRIPTION

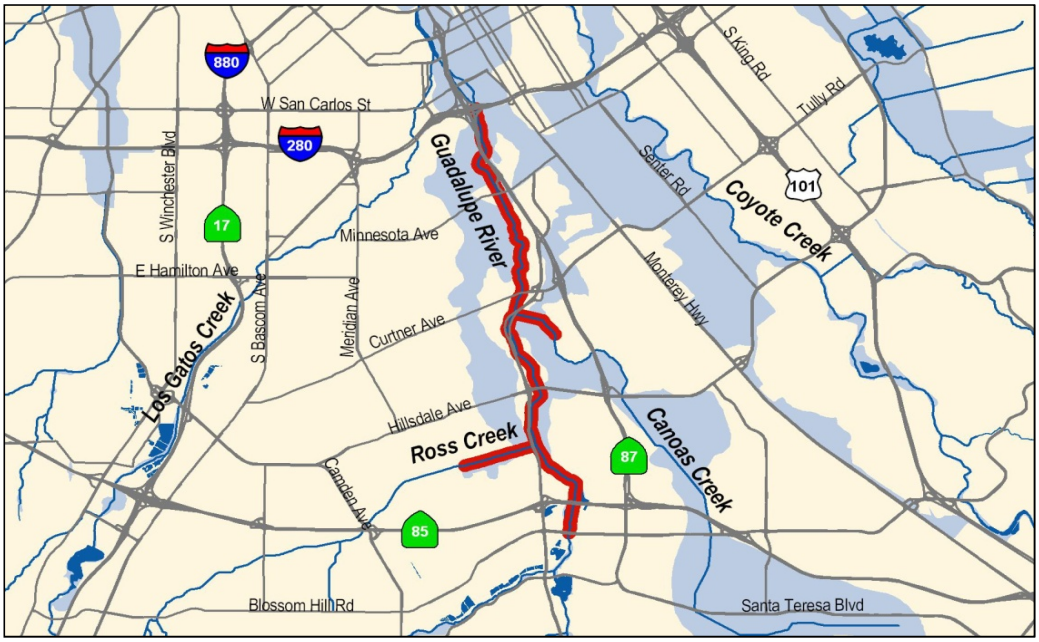
This project partners with the U.S. Army Corps of Engineers (Corps) to plan, design, and construct improvements along approximately 6 miles of the Guadalupe River, from Interstate 280 to Blossom Hill Road, to accomplish the following objectives:

- Provide one-percent flood protection to nearly 7,000 parcels along the Guadalupe River, from I-280 to Blossom Hill Road, including portions of Ross Creek and Canoas Creek.
- Provide long-term net gains of 15 acres in riparian forest acreage, quality, and continuity of wildlife habitat, and conditions favoring Chinook salmon and steelhead trout.
- Provide access to an additional 19 miles of suitable upstream spawning and rearing habitat, which would result in significant long-term beneficial impacts on fisheries resources.
- Coordinate with the City of San Jose and the community to establish a continuous maintenance road suitable for trail development between Interstate 280 and Los Alamitos Creek.
- Improve water quality by reducing bank erosion and sedimentation-related impacts along the river and tributaries.
- Address and resolve permit coordination activities and watershed integration issues through the Guadalupe Watershed Integration Working Group.

This project is accounted for in the following job numbers:

- 26154001—Fish Passage Modification
- 26154002—I-280 to Southern Pacific Railroad Bridge (Reach 6)
- 26154003—Southern Pacific Railroad Bridge to Blossom Hill Road (Reach 7-12)

PROJECT LOCATION



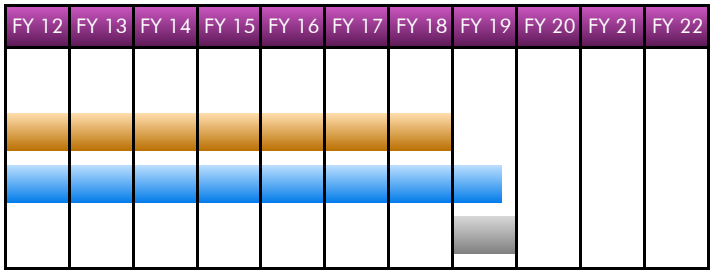
Project Location
1 Percent Floodplain

SCHEDULE & STATUS

July 2001 to June 2019

Planning phase is complete. Design and construction of eight individual reaches are being done sequentially.

Phase	Cost
Plan	10,715
Design	64,740
Construct	54,494
Closeout	174
	n/a



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY11	FY12	FY13	FY14	FY15	FY16	FY17	Future	
26154001-Guadalupe Rv—Upr, Fish Passage Mods	2,651	0	0	0	0	0	0	0	2,651
with inflation	2,651	0	0	0	0	0	0	0	2,651
26154002-Guadalupe Rv—Upr, I-280 to SPRR (R6)	29,853	1,516	800	455	455	547	0	0	33,626
with inflation	29,853	1,516	800	483	497	616	0	0	33,765
26154003-Guadalupe Rv—Upper, SPRR to Blossom Hill Rd. (R7-12)	32,024	23,069	2,498	6,022	7,557	6,606	3,995	4,188	85,959
with inflation	32,024	23,069	2,498	6,389	8,258	7,435	4,631	5,008	89,312
Actuals in closed project numbers	7,887	0	0	0	0	0	0	0	7,887
with inflation	7,887	0	0	0	0	0	0	0	7,887
TOTAL	72,415	24,585	3,298	6,477	8,012	7,153	3,995	4,188	130,123
with inflation	72,415	24,585	3,298	6,871	8,755	8,051	4,631	5,008	133,614

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY11	FY12		FY13	FY14	FY15	FY16	FY17	Future	
26154001-Guadalupe Rv—Upr, Fish Passage Mods	2,651	0	0	0	0	0	0	0	0	2,651
26154002-Guadalupe Rv—Upr, I-280 to SPRR (R6)	33,710	0	2,341	0	0	0	55	0	0	33,765
26154003-Guadalupe Rv—Upper, SPRR to Blossom Hill Rd. (R7-12)	56,929	11,005	12,841	0	0	4,303	7,435	4,631	5,008	89,312
Actuals in closed project numbers	7,887	0	0	0	0	0	0	0	0	7,887
TOTAL	101,177	11,005	15,182	0	0	4,303	7,490	4,631	5,008	133,614

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Clean, Safe Creeks and Natural Flood Protection Fund	108,200
State of California	21,629
City of San Jose	3,785
Total	133,614
Federal Partner–Corps of Engineers	136,700

OPERATING COST IMPACTS

The completion of this project is anticipated to increase operating costs by approximately $480,000 per year, beginning in FY 2020, for mitigation and monitoring labor and equipment, implementation of adaptive management measures, and operations and maintenance in accordance with the Corps Operations and Maintenance Manual.

USEFUL LIFE: 30+ Years

Project	**Berryessa Creek, Calaveras Boulevard to Interstate 680**
Program	Flood Protection – Coyote Watershed
Priority No.	53
Project No.	26174041s
District Contact	Melanie Richardson mrichardson@valleywater.org

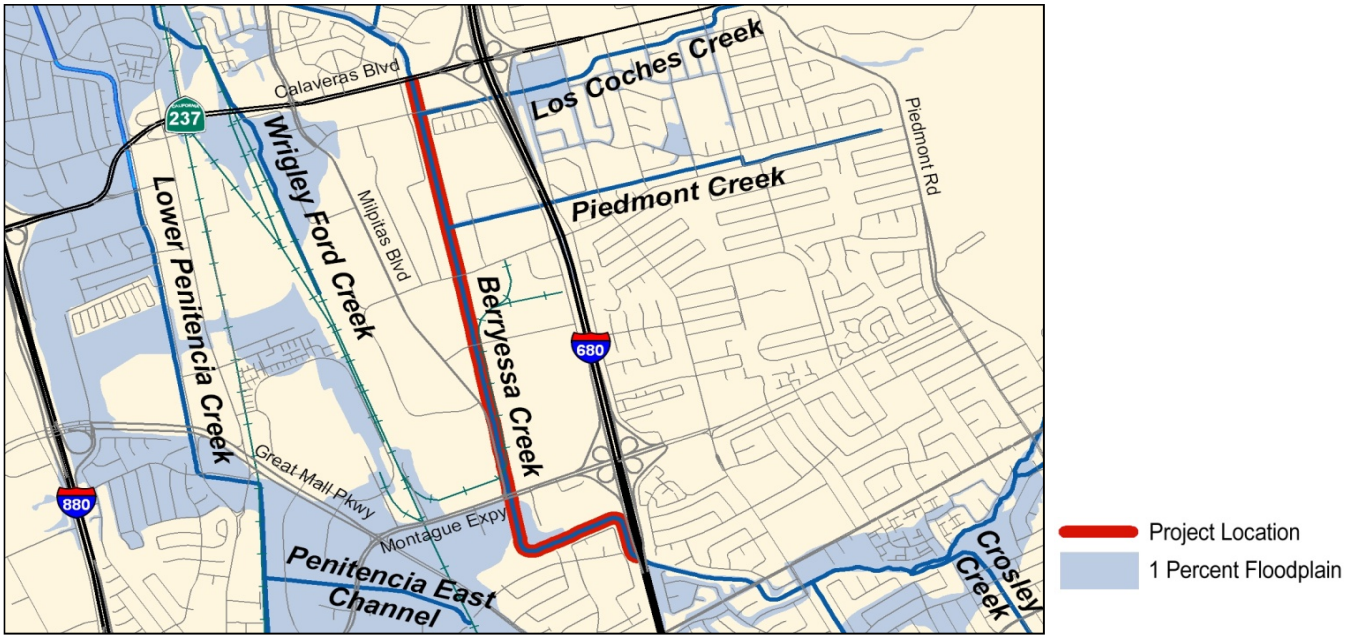
Berryessa Creek near flood stage at Piedmont Road in San Jose

PROJECT DESCRIPTION

This project partners with the U.S. Army Corps of Engineers (Corps) to plan, design, and construct improvements along approximately 2 miles of Berryessa Creek, from Calaveras Boulevard to Interstate 680, to accomplish the following objectives:

- Provide one-percent flood protection to more than 2,100 homes, businesses, and public buildings.
- Reduce sedimentation and maintenance requirements.
- Mitigate for project impacts.
- Improve stream habitat values.
- Coordinate with the cities of San Jose and Milpitas, and the community to establish a continuous maintenance road suitable for trail development along the Berryessa Creek project.
- Obtain a Letter of Map Revision (LOMR) from the Federal Emergency Management Agency (FEMA).
- Incorporate the District's Clean, Safe Creeks and Natural Flood Protection Program Objectives.

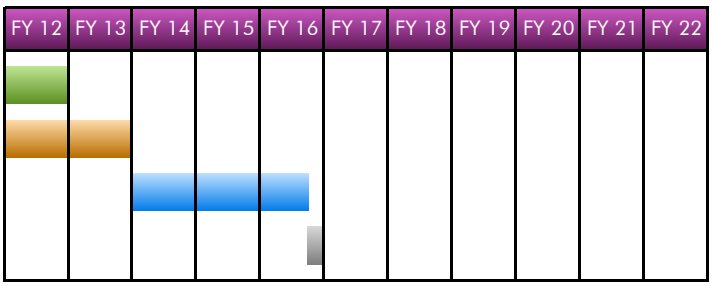
PROJECT LOCATION



PROJECT SCHEDULE

July 2001 to June 2016

Phase	Cost
Plan	6,780
Design	857
Construct	30,157
Closeout	110
	37,904



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY11	FY12	FY13	FY14	FY15	FY16	FY17	Future	
26174041-Berryessa Creek, Corps Coordination	6,610	124	2,565	90	90	65	0	0	9,544
with inflation	6,610	124	2,565	95	98	73	0	0	9,566
26174042-Berryessa Creek, LERRDs	655	334	168	17,965	9,163	75	0	0	28,360
with inflation	655	334	168	19,059	10,013	84	0	0	30,313
TOTAL	7,265	458	2,733	18,055	9,253	140	0	0	37,904
with inflation	7,265	458	2,733	19,155	10,111	158	0	0	39,879

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY11	FY12		FY13	FY14	FY15	FY16	FY17	Future	
26174041-Berryessa Creek, Corps Coordination	6,627	107	0	2,565	95	98	73	0	0	9,566
26174042-Berryessa Creek, LERRDs	5,291	0	4,302	0	14,925	10,013	84	0	0	30,313
TOTAL	11,918	107	4,302	2,565	15,021	10,111	158	0	0	39,879

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Clean, Safe Creeks and Natural Flood Protection Fund	27,800
State of California	12,079
Total	39,879
Federal Partner–Corps of Engineers	45,200

OPERATING COST IMPACTS

The completion of this project is anticipated to increase operating costs by approximately $80,000 per year, beginning in FY 2017, to maintain approximately 2 miles of new levees and flood walls, and for activities such as vegetation spraying and graffiti removal.

USEFUL LIFE: 30+ Years

Project	**Berryessa Creek, Lower Penitencia Creek to Calaveras Boulevard**
Program	Flood Protection – Coyote Watershed
Priority No.	67
Project No.	40174004
District Contact	Melanie Richardson mrichardson@valleywater.org

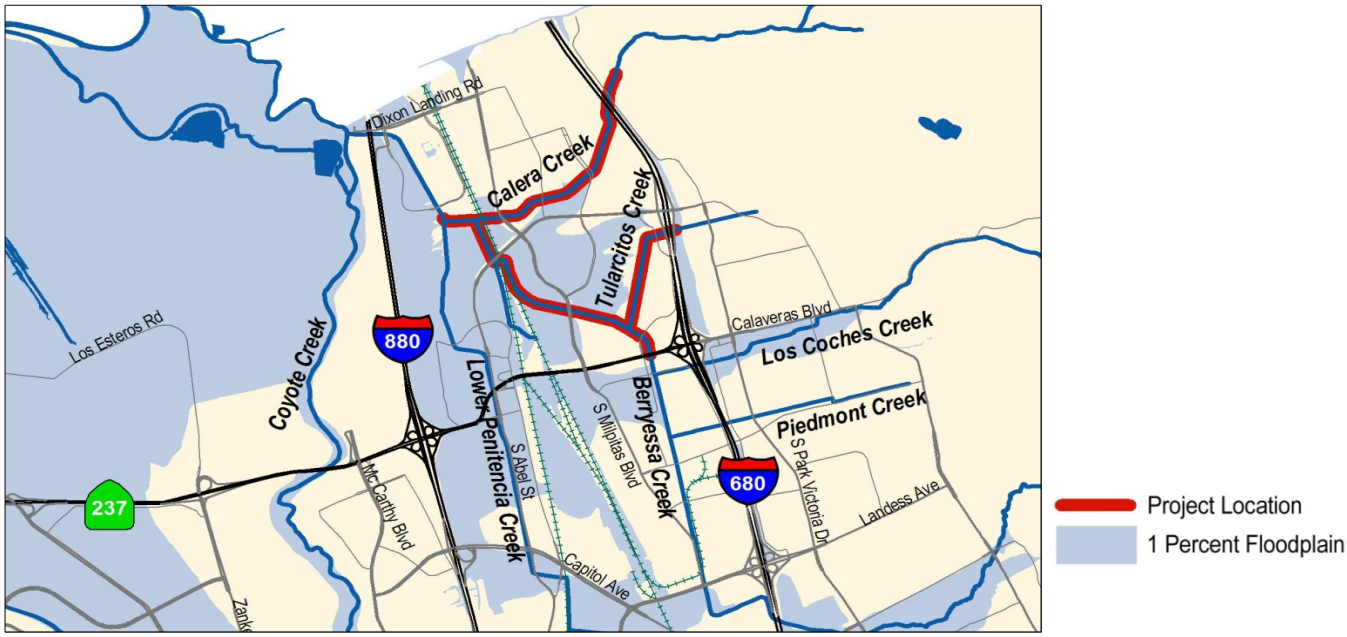
Berryessa Creek upstream of the confluence with Lower Penitencia Creek

PROJECT DESCRIPTION

This project plans, designs, and constructs improvements along approximately 3 miles of Berryessa Creek and its tributaries, from the confluence with Lower Penitencia Creek to Calaveras Boulevard and the lower reaches of both Calera and Tularcitos Creeks, to accomplish the following objectives:

- Provide one-percent flood protection to the surrounding area.
- Improve the structural integrity of the levees.
- Improve maintenance access and safety for District staff.
- Identify opportunities to integrate recreation inputs consistent with the City of Milpitas' Trail Master Plan.
- Obtain a Letter of Map Revision (LOMR) from the Federal Emergency Management Agency (FEMA).
- Incorporate the District's Clean, Safe Creeks and Natural Flood Protection (NFP) Program Objectives.

PROJECT LOCATION

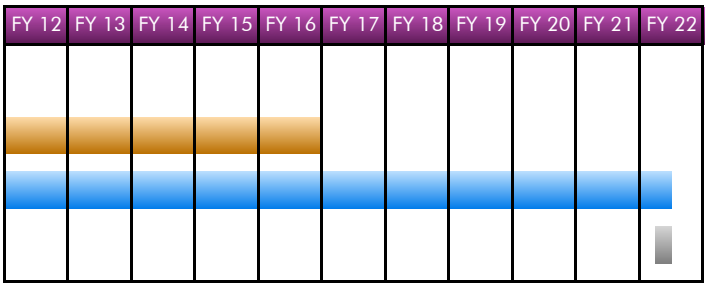


SCHEDULE & STATUS

March 2001 to December 2021

Planning is complete. Construction includes three phases and three years of plant establishment monitoring.

Phase	Cost
Plan	7,463
Design	2,319
Construct	41,677
Closeout	54
	51,513



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY11	FY12	FY13	FY14	FY15	FY16	FY17	Future	
40174004-Berryessa Creek, Lower Penitencia Creek to Calaveras Boulevard	28,934	10,018	1,535	456	240	8,935	615	780	51,513
with inflation	28,934	10,018	1,535	484	262	10,056	713	948	52,950

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY11	FY12		FY13	FY14	FY15	FY16	FY17	Future	
40174004-Berryessa Creek, Lower Penitencia Creek to Calaveras Boulevard	36,716	2,236	0	1,535	484	262	10,056	713	948	52,950

Adjusted Budget includes adopted budget plus a planned budget adjustment for $1,757,000.

FUNDING SOURCES

(in thousands $)

SCVWD Watershed Stream Stewardship Fund	52,950
Other Funding Source	0
Total	52,950

OPERATING COST IMPACTS

The completion of this project is anticipated to increase annual operating costs by approximately $100,000 per year. Operating costs will increase with completion of construction of each of 3 phases: beginning with a $50,000 increase in FY 2014 (with completion of Phase 1), increasing to $65,000 in FY 2016 (Phase 2), and finally increasing to $100,000 in FY 2018 (Phase 3). These costs will be for increased maintenance activities such as sediment removal, vegetation management, levee maintenance, graffiti abatement, and trash & debris cleanup.

USEFUL LIFE: 30+ Years

Project	**Coyote Creek, Montague Expressway to Interstate 280**
Program	Flood Protection – Coyote Watershed
Priority No.	59
Project No.	26174043
District Contact	Melanie Richardson mrichardson@valleywater.org

Flooding from Coyote Creek on 17th Street near downtown San Jose in January 1997

PROJECT DESCRIPTION

This project plans, designs, and partially constructs improvements along approximately 6.1 miles of Coyote Creek, from Montague Expressway to Interstate 280, to accomplish the following objectives:

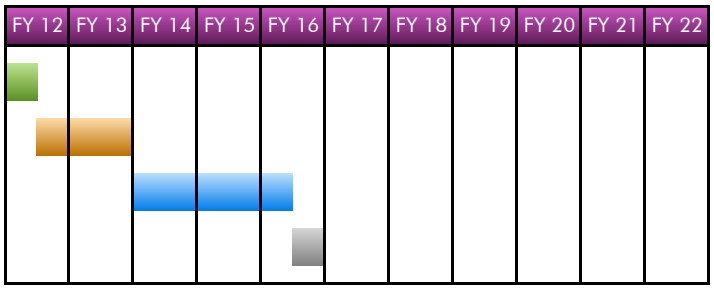
- Provide flood protection to the surrounding area.
- Mitigate for project impacts to stream habitat and fisheries.
- Develop a continuous maintenance road that is consistent and supportive of the city's Coyote Creek Trail master plans.
- Identify stream habitat enhancement and/or restoration opportunities.
- Identify opportunities to improve water quality within the project limits.
- Identify opportunities to provide for public recreation and access.
- Create a self-sustaining system within the project limits, to reduce long-term operations and maintenance costs.
- Obtain community support.

PROJECT LOCATION

SCHEDULE & STATUS

September 2002 to June 2016

Phase	Cost
Plan	8,542
Design	15,053
Construct	9,820
Closeout	66
	33,481



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY11	FY12	FY13	FY14	FY15	FY16	FY17	Future	
26174043-Coyote Creek, Montague Expressway to Interstate 280	9,080	6,176	740	14,352	2,800	335	0	0	33,483
with inflation	9,080	6,176	740	15,226	3,060	377	0	0	34,659

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY11	FY12		FY13	FY14	FY15	FY16	FY17	Future	
26174043-Coyote Creek, Montague Expressway to Interstate 280	11,878	3,380	2	738	15,226	3,060	377	0	0	34,659

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Clean, Safe Creeks and Natural Flood Protection Fund	34,659
Other Funding Source	0
Total	34,659

OPERATING COST IMPACTS

The completion of this project is anticipated to increase operating costs by approximately $100,000 per year, beginning in FY 2017. Currently the District has limited and sporadic property rights within the project limits along the creek, and ongoing maintenance costs are relatively small. Project implementation may include acquisition of continuous right of way for construction and future operations and maintenance.

USEFUL LIFE: 30+ Years

Project	**Lake Cunningham Improvements**
Program	Flood Protection – Coyote Watershed
Priority No.	54
Project No.	40264011
District Contact	Melanie Richardson mrichardson@valleywater.org

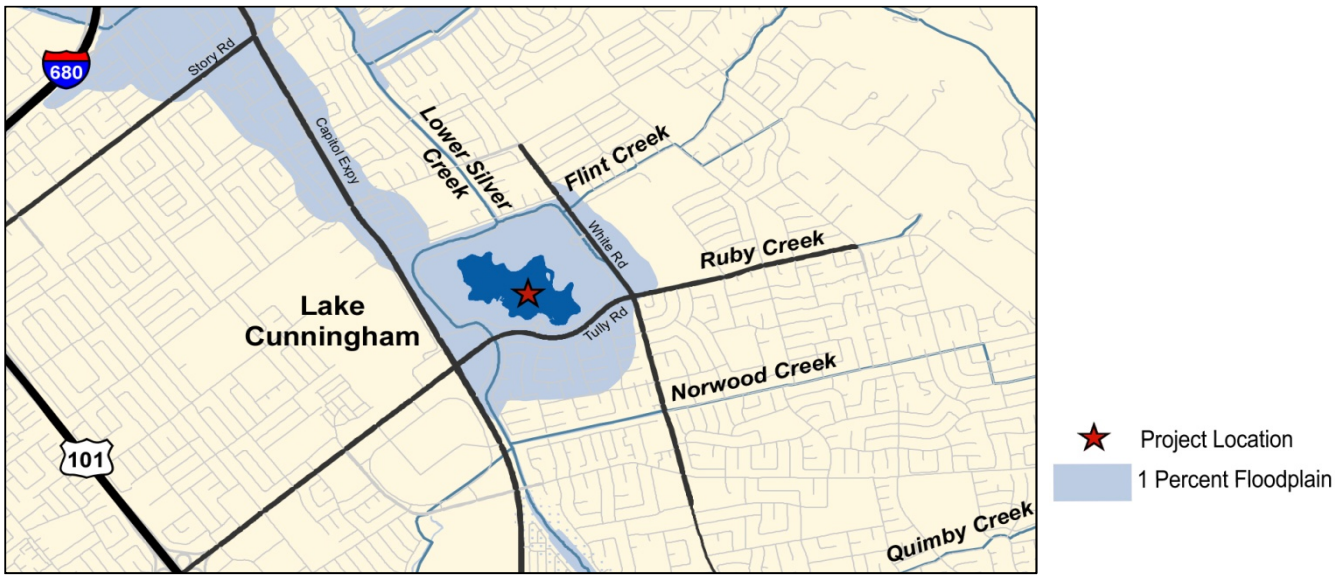
Flooding from Lower Silver Creek in February 1969 at the future site of Lake Cunningham

PROJECT DESCRIPTION

This project plans, designs, and constructs improvements to Lake Cunningham in the city of San Jose between Cunningham Avenue and Tully Road, to function as a detention basin and accomplish the following objectives:

- Provide one-percent flood protection to Lower Silver Creek between Coyote Creek and Cunningham Avenue.
- Obtain Letter of Map Revision from FEMA to remove at least 3,800 parcels from the 1% flood plain.
- Coordinate with the City of San Jose and VTA to develop improvements that support associated plans for public transportation and recreational trail development.

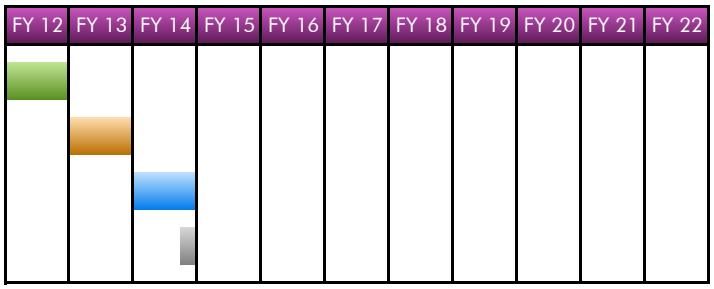
PROJECT LOCATION



SCHEDULE & STATUS

August 1999 to June 2014.

Phase	Cost
Plan	1,681
Design	1,507
Construct	5,125
Closeout	20
	8,333



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY11	FY12	FY13	FY14	FY15	FY16	FY17	Future	
40264011-Lake Cunningham Improvements	101	1,536	552	6,144	0	0	0	0	8,333
with inflation	101	1,536	552	6,518	0	0	0	0	8,707

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY11	FY12		FY13	FY14	FY15	FY16	FY17	Future	
40264011-Lake Cunningham Improvements	101	1,536	0	552	6,518	0	0	0	0	8,707

Adjusted Budget includes adopted budget plus a planned budget adjustment of $1,304,000.

FUNDING SOURCES

(in thousands $)

SCVWD Watershed Stream Stewardship Fund	8,707
Other Funding Source	0
Total	8,707

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operations costs. The project is within District jurisdiction and it is designed to minimize maintenance activities such as sediment removal, so as to have minimal or no additional impact to the operating budget.

USEFUL LIFE: 30+ Years

Project	**Lower Penitencia Creek Capacity Restoration, Berryessa to Coyote Creeks**
Program	Flood Protection – Coyote Watershed
Priority No.	54
Project No.	40334005
District Contact	Melanie Richardson mrichardson@valleywater.org

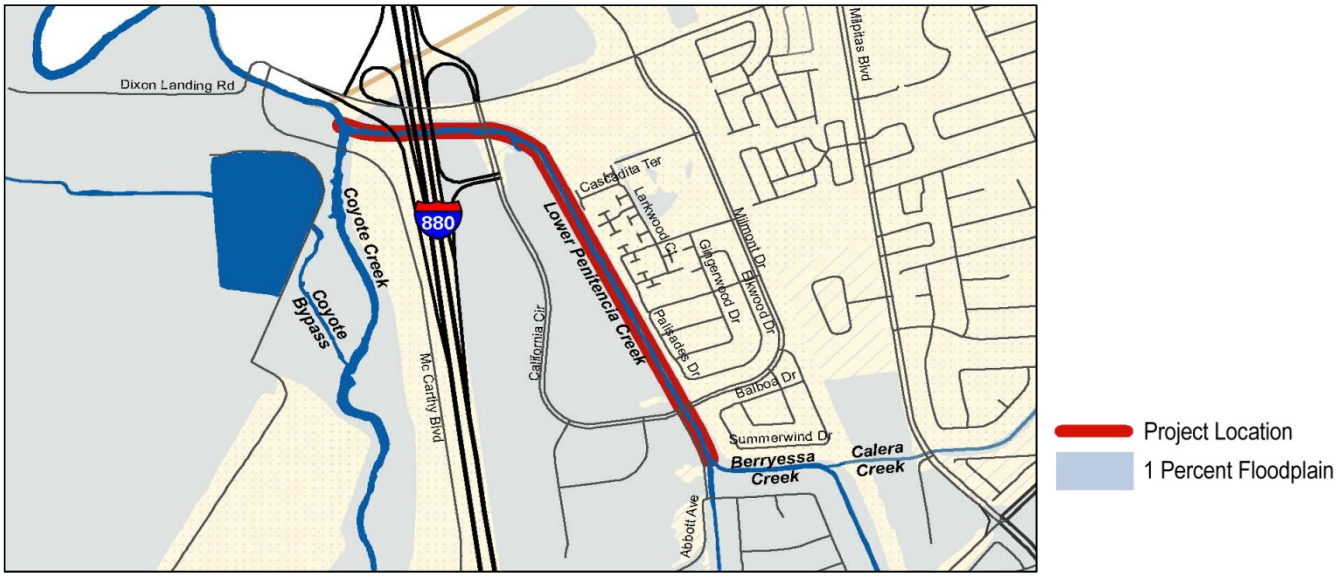
Lower Penitencia Creek, looking upstream from Abbot Avenue

PROJECT DESCRIPTION

This project plans, designs, and constructs improvements along approximately 1 mile of Lower Penitencia Creek from the downstream confluence with Coyote Creek to the upstream confluence with Lower Berryessa Creek, to accomplish the following objectives:

- Provide 1% flood protection along the creek.
- Identify opportunities for environmental enhancement, such as stream restoration, trails, parks, and open space for District Board consideration.
- Minimize impacts to environmental resources and provide opportunities to protect and enhance existing riparian habitat

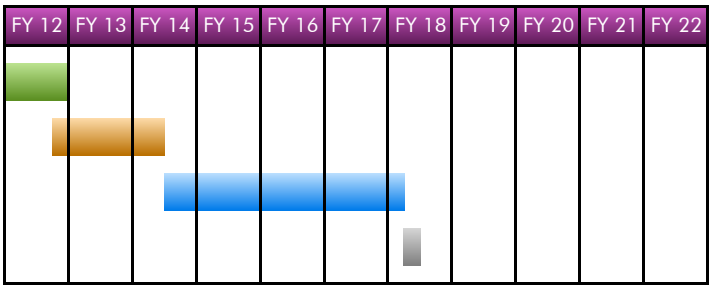
PROJECT LOCATION



SCHEDULE & STATUS

October 2010 to December 2017

Phase	Cost
Plan	680
Design	689
Construct	5,491
Closeout	40
	6,900



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY11	FY12	FY13	FY14	FY15	FY16	FY17	Future	
40334005-Lower Penitencia Creek Capacity Restoration, Berryessa to Coyote Creeks	76	630	581	5,397	103	53	40	20	6,900
with inflation	76	630	581	5,726	113	60	46	24	7,255

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY11	FY12		FY13	FY14	FY15	FY16	FY17	Future	
40334005-Lower Penitencia Creek Capacity Restoration, Berryessa to Coyote Creeks	156	550	0	581	5,726	113	60	46	24	7,255

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Watershed Stream Stewardship Fund	7,255
Other Funding Source	0
Total	7,255

OPERATING COST IMPACTS

Operating cost impacts will be provided after completion of the planning phase.

USEFUL LIFE: 50 Years

Project	**Lower Silver Creek, I-680 to Cunningham Avenue (R4-6)**
Program	Flood Protection – Coyote Watershed
Priority No.	56
Project No.	40264007s
District Contact	Melanie Richardson mrichardson@valleywater.org

Lower Silver Creek looking upstream from Capital Expressway

PROJECT DESCRIPTION

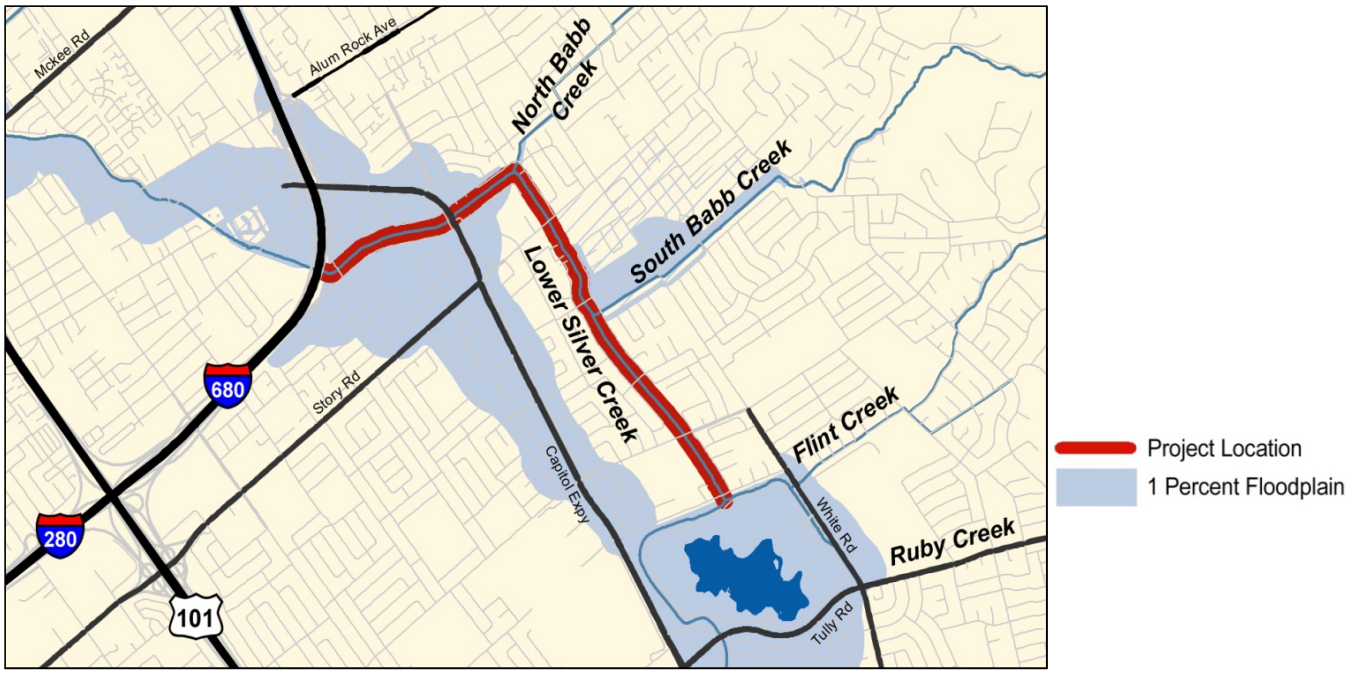
This project is part of a flood control project that partners with the Natural Resource Conservation Service (NRCS) to plan, design and construct improvements along approximately 2.3 miles of Lower Silver Creek, from Interstate 680 to Lake Cunningham. This project includes elements that are eligible for reimbursement from the state and federal governments to accomplish the following objectives:

- Increase flood protection to 5,400 parcels in the surrounding area.
- Allow for on-site mitigation of project impacts, and in some cases enhancement of existing habitat values by increased wetlands and riparian habitat.
- Improve vehicle and pedestrian bridges crossing Lower Silver Creek.
- Develop the footprint for a future trail project between Capitol Avenue-Frontage Road and Jackson Avenue that ensures pedestrians and bicyclists may travel beneath the Dobern Pedestrian Bridge.

This project is accounted for in the following job numbers:

40264007–Lower Silver Creek, I-680 to N. Babb Rd. (Reach 4 Planning)
40264008–Lower Silver Creek, I-680 to Cunningham Rd. (Reach 4-6)
40264012–Lower Silver Creek (Reach 4-6) Reimbursable

PROJECT LOCATION

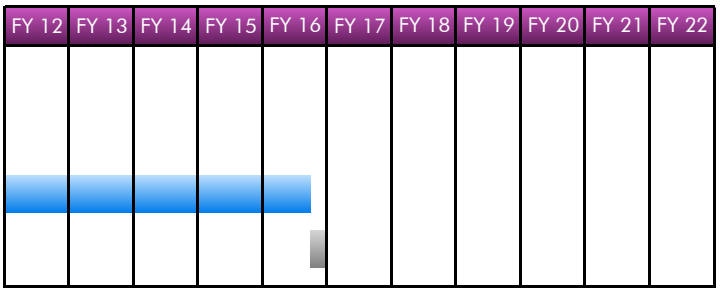


SCHEDULE & STATUS

August 1991 to April 2016

Planning phase is complete.

Phase	Cost
Plan	6,342
Design	6,748
Construct	52,923
Closeout	50
	66,063



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY11	FY12	FY13	FY14	FY15	FY16	FY17	Future	
40264007-Lower Silver Creek, Reach 4 Planning	2,371	0	0	0	0	0	0	0	2,371
with inflation	2,371	0	0	0	0	0	0	0	2,371
40264008-Lower Silver Ck, Nonreimbursable (R4-6)	43,331	16,551	602	50	50	75	0	0	60,659
with inflation	43,331	16,551	602	53	55	84	0	0	60,676
40264012-Lower Silver Creek, LERRDs (R4-6)	1,614	1,141	103	50	50	75	0	0	3,033
with inflation	1,614	1,141	103	53	55	84	0	0	3,050
TOTAL	47,316	17,692	705	100	100	150	0	0	66,063
with inflation	47,316	17,692	705	106	109	169	0	0	66,097

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY11	FY12		FY13	FY14	FY15	FY16	FY17	Future	
40264007-Lower Silver Creek, Reach 4 Planning	2,371	0	0	0	0	0	0	0	0	2,371
40264008-Lower Silver Ck, Nonreimbursable (R4-6)	44,392	15,556	66	536	53	55	84	0	0	60,676
40264012-Lower Silver Creek, LERRDs (R4-6)	2,709	51	5	98	53	55	84	0	0	3,050
TOTAL	49,472	15,607	71	634	106	109	169	0	0	66,097

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Watershed Stream Stewardship Fund	15,887
State of California	5,000
Natural Resource Conservation Service - ARRA	20,210
California Department of Water Resources	25,000
Total	66,097

OPERATING COST IMPACTS

Operating budget impacts from construction of this project are expected to be insignificant. Repair of several erosion sites will reduce maintenance needs, but will not affect overall sediment removal or vegetation control practices.

USEFUL LIFE: 50+ Years

Project	**Upper Penitencia Creek, Coyote Creek to Dorel Drive**
Program	Flood Protection – Coyote Watershed
Priority No.	58
Project No.	40324003s
District Contact	Melanie Richardson mrichardson@valleywater.org

Flooding at King Road on Upper Penitencia Creek

PROJECT DESCRIPTION

This project partners with the U.S. Army Corps of Engineers (Corps) to plan, design, and construct improvements along approximately 4.2 miles of Upper Penitencia Creek, from the confluence with Coyote Creek to Dorel Drive, to accomplish the following objectives.

- Provide one-percent flood protection to more than 5,000 homes, businesses, and public buildings.
- Mitigate for project impacts.
- Improve stream habitat values and fisheries potential.
- Reduce sedimentation and maintenance requirements.
- Identify opportunities to integrate recreation improvements consistent with the City of San Jose's and Santa Clara County Parks' Master Plan.
- Obtain a Letter of Map Revision (LOMR) from the Federal Emergency Management Agency (FEMA).
- Incorporate the District's Clean, Safe Creeks and Natural Flood Protection (NFP) Program Objectives.
- Coordinate with local agencies to ensure that planned flood control improvements do not conflict with trail construction scheduled to begin in the latter part of 2011.

This project is accounted for in the following job numbers:
40324003—District coordination with Corps for Corps' work
40324005—District's Lands, Easements, Rights of Way, Relocation, and Disposal (LERRDs)

This project is funded through the planning phase only. The scope, schedule, costs and funding sources of the design and construction phases will be determined upon completion of planning.

PROJECT LOCATION

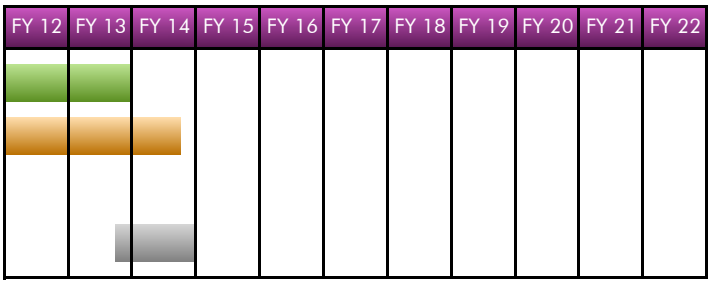
Project Location
1 Percent Floodplain

SCHEDULE & STATUS

March 1996 to June 2014

Planning phase only, with the exception of a small cost-share construct in FY01-04. Design phase is primarily for acquiring right of way. Traditional design activities are not funded at this time.

Phase	Cost
Plan	6,014
Design	9,845
Construct	1,474
Closeout	50
	17,383



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY11	FY12	FY13	FY14	FY15	FY16	FY17	Future	
40324003-Upper Penitencia Ck, Coyote Ck to Dorel Dr, Corps	8,344	356	196	0	0	0	0	0	8,896
with inflation	8,344	356	196	0	0	0	0	0	8,896
40324005-Upper Penitencia Ck, Coyote Ck to Dorel Dr, LERRDs	1,966	4,930	72	1,519	0	0	0	0	8,487
with inflation	1,966	4,930	72	1,612	0	0	0	0	8,580
TOTAL	10,310	5,286	268	1,519	0	0	0	0	17,383
with inflation	10,310	5,286	268	1,612	0	0	0	0	17,476

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY11	FY12		FY13	FY14	FY15	FY16	FY17	Future	
40324003-Upper Penitencia Ck, Coyote Ck to Dorel Dr, Corps	8,970	0	270	0	0	0	0	0	0	8,970
40324005-Upper Penitencia Ck, Coyote Ck to Dorel Dr, LERRDs	6,919	1,545	1,568	0	116	0	0	0	0	8,580
TOTAL	15,889	1,545	1,838	0	116	0	0	0	0	17,550

Adjusted Budget includes adopted budget plus approved budget adjustments. Approved funding exceeds planned expenditures by $74,000. Remaining funds will be returned to reserves at the end of the project.

FUNDING SOURCES

(in thousands $)

SCVWD Watershed Stream Stewardship Fund	17,550
Other Funding Source	0
Total	17,550

OPERATING COST IMPACTS

Planning Phase Only: The completion of this phase of the project is not anticipated to increase or decrease annual operating costs.

USEFUL LIFE: Not Available

Project	**Llagas Creek–Lower, Capacity Restoration, Buena Vista Road to Pajaro River**
Program	Flood Protection – Uvas/Llagas Watershed
Priority No.	81
Project No.	50284010
District Contact	Melanie Richardson mrichardson@valleywater.org

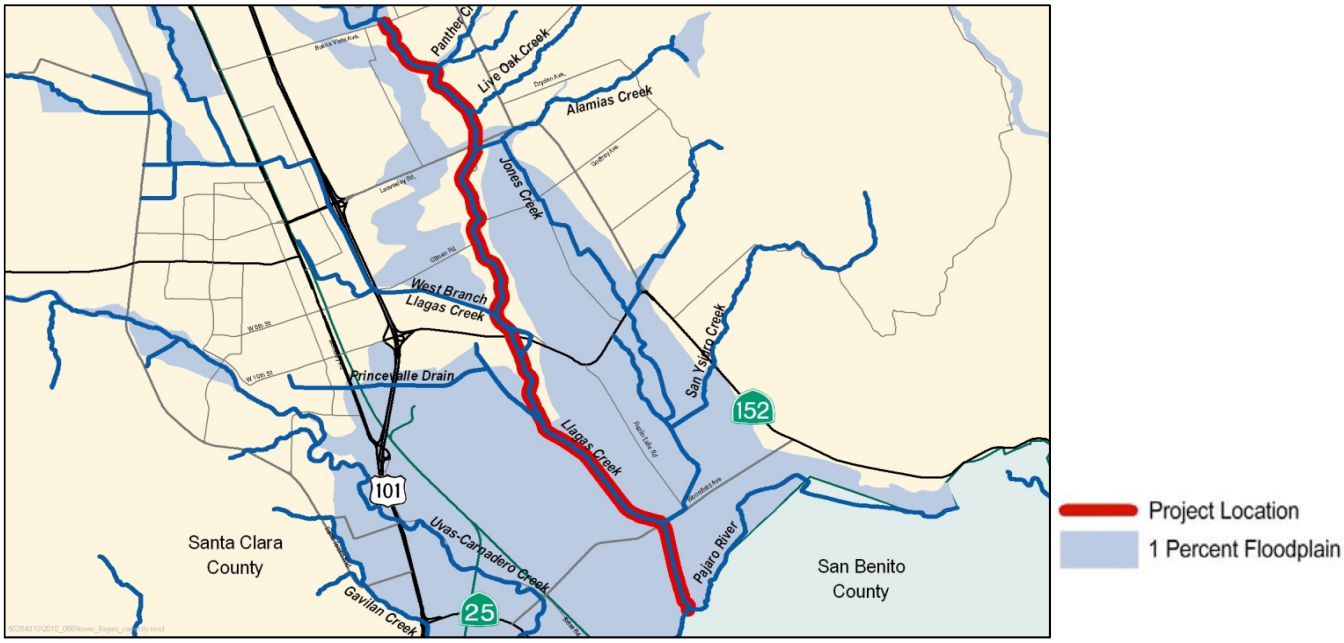
Lower Llagas Creek near Pajaro River

PROJECT DESCRIPTION

This project plans, designs, and constructs improvements on approximately 7.15 miles of Lower Llagas Creek, from Buena Vista Avenue to Pajaro River, to accomplish the following objectives:

- Evaluate the current flood risk in the area surrounding the project versus the design level flood risk.
- Develop options to provide flood protection for Lower Llagas Creek Reaches 2 and 3 in accordance with FEMA criteria where applicable.
- Identify feasible opportunities for environmental restoration and corridor preservation.

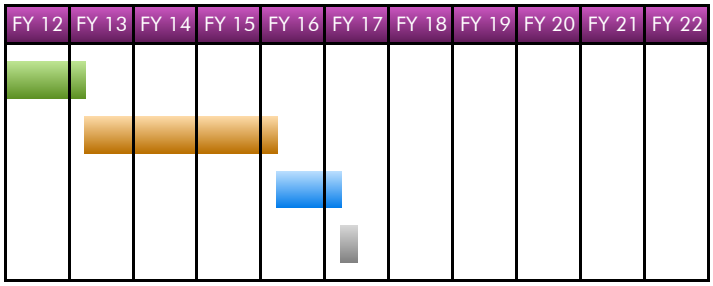
PROJECT LOCATION



SCHEDULE & STATUS

July 2008 to October 2016

Phase	Cost
Plan	3,396
Design	1,722
Construct	2,050
Closeout	50
	7,218



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY11	FY12	FY13	FY14	FY15	FY16	FY17	Future	
50284010-Llagas Creek–Lower, Capacity Restoration, Buena Vista Road to Pajaro River	1,752	1,300	566	545	955	1,825	275	0	7,218
with inflation	1,752	1,300	566	578	1,044	2,054	319	0	7,613

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY11	FY12		FY13	FY14	FY15	FY16	FY17	Future	
50284010-Llagas Creek–Lower, Capacity Restoration, Buena Vista Road to Pajaro River	2,143	1,323	414	152	578	1,044	2,054	319	0	7,613

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Watershed Stream Stewardship Fund	7,613
Other Funding Source	0
Total	7,613

OPERATING COST IMPACTS

Operating costs will be determined during the planning phase.

USEFUL LIFE: 30+ Years

Project	**Llagas Creek–Upper, Buena Vista Road to Wright Avenue**
Program	Flood Protection – Uvas/Llagas Watershed
Priority No.	66
Project No.	26174051s
District Contact	Liang Lee llee@valleywater.org

Llagas Creek floods at Watsonville Road and the surrounding area

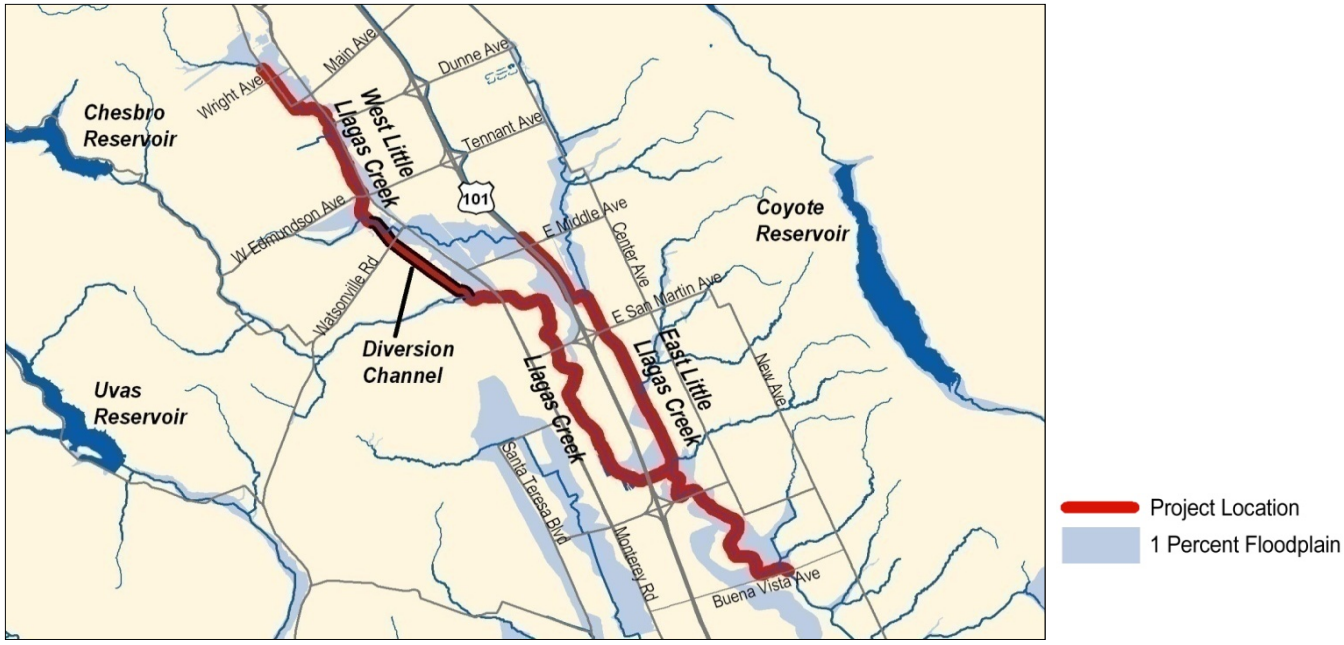
PROJECT DESCRIPTION

This project partners with the U.S. Army Corps of Engineers (Corps) to plan, design, and construct improvements on approximately 13.6 miles of Upper Llagas Creek, from Buena Vista Avenue to Wright Avenue, to provide an increased level of flood protection with adequate freeboard.

This project is accounted for in the following job numbers:

- 26174051—Reimbursable Work—Lands, Easements, Rights of Way, Relocation, and Disposal (LERRD)
- 26174052—Coordination with the Corps
- 26174053—Technical Studies
- 26174054—Design

PROJECT LOCATION

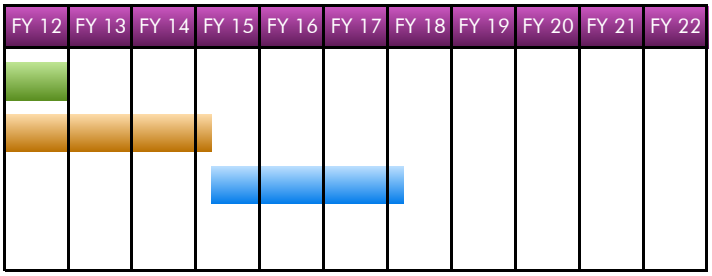


SCHEDULE & STATUS

August 2000 to September 2017

Project schedule may vary considerably and is dependent upon the Corps and Congress.

Phase	Cost
Plan	5,527
Design	27,819
Construct	9,084
Closeout	150
	42,580



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY11	FY12	FY13	FY14	FY15	FY16	FY17	Future	
26174051-Llagas Ck—Upper, LERRDs	6,247	2,120	773	7,250	25	0	0	0	16,415
with inflation	6,247	2,120	773	7,692	27	0	0	0	16,859
26174052-Llagas Ck—Upper, Corps Coordination	2,042	102	103	100	5,350	3,325	200	0	11,222
with inflation	2,042	102	103	106	5,846	3,742	232	0	12,173
26174053-Llagas Ck—Upper, Technical Studies	1,446	0	0	0	0	0	0	0	1,446
with inflation	1,446	0	0	0	0	0	0	0	1,446
26174054-Llagas Ck—Upper, Design	7,456	4,058	1,133	850	0	0	0	0	13,497
with inflation	7,456	4,058	1,133	902	0	0	0	0	13,549
TOTAL	**17,191**	**6,280**	**2,009**	**8,200**	**5,375**	**3,325**	**200**	**0**	**42,580**
with inflation	**17,191**	**6,280**	**2,009**	**8,699**	**5,873**	**3,742**	**232**	**0**	**44,027**

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY11	FY12		FY13	FY14	FY15	FY16	FY17	Future	
26174051-Llagas Ck—Upper, LERRDs	8,958	50	641	132	7,692	27	0	0	0	16,859
26174052-Llagas Ck—Upper, Corps Coordination	2,572	0	428	0	0	5,627	3,742	232	0	12,173
26174053-Llagas Ck—Upper, Technical Studies	1,446	0	0	0	0	0	0	0	0	1,446
26174054-Llagas Ck—Upper, Design	7,491	4,023	0	1,133	902	0	0	0	0	13,549
TOTAL	**20,467**	**4,073**	**1,069**	**1,265**	**8,593**	**5,654**	**3,742**	**232**	**0**	**44,027**

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Clean, Safe Creeks and Natural Flood Protection Fund	17,900
Watershed Stream Stewardship Fund	7,687
State of California	15,100
City of Morgan Hill	3,340
Total	**44,027**
Federal Partner—Corps of Engineers	65,000

OPERATING COST IMPACTS

Operating cost impacts will be provided after completion of the planning phase.

USEFUL LIFE: 30+ Years

Project	**San Francisco Bay Shoreline**
Program	Flood Protection – Multiple Watersheds
Priority No.	32
Project No.	00044026s
District Contact	Melanie Richardson mrichardson@valleywater.org

Typical natural tidal marshland in San Francisco Bay near the Shoreline project area.

PROJECT DESCRIPTION

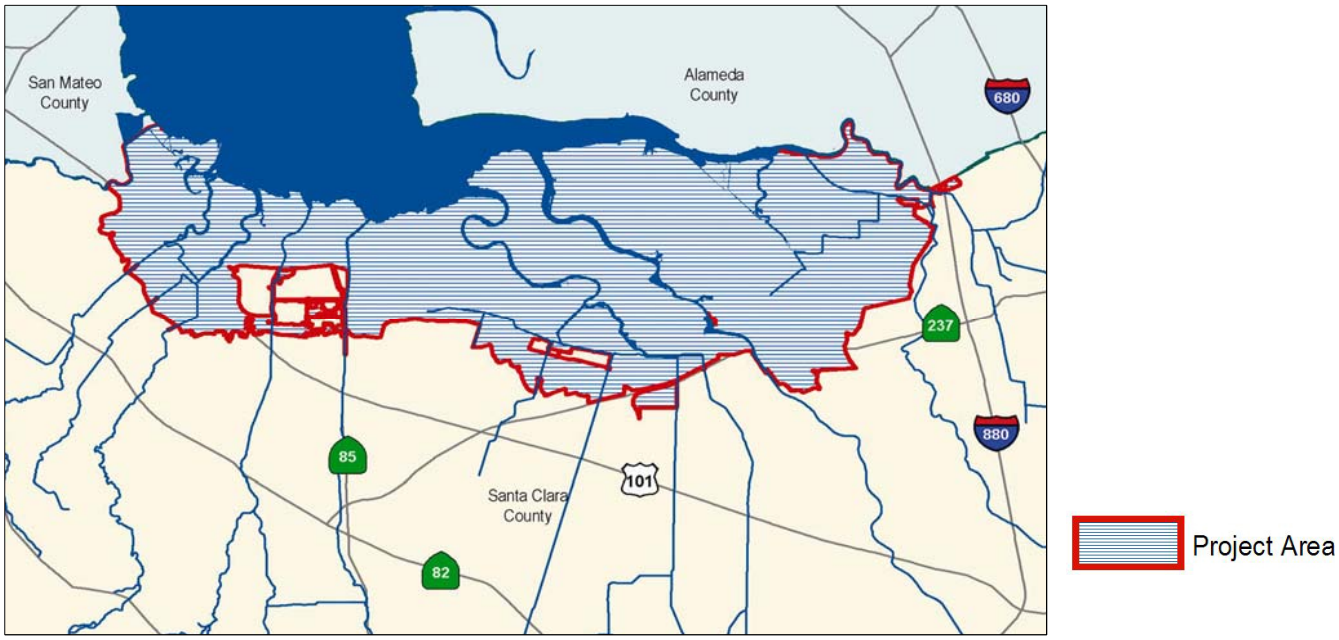
This project coordinates with the California Costal Conservancy, U.S. Army Corps of Engineers (Corps), and other project partners to plan, design, and construct improvements to the San Francisco Bay Shoreline, to accomplish the following objectives:

- Provide integrated fluvial and tidal flood protection.
- Restore and/or enhance tidal marsh and related habitats.
- Provide recreational and public access opportunities throughout the tidal floodplain of Santa Clara County.
- Pursue continued federal funding.
- Coordinate with San Jose's Parks Department to ensure that no changes to the slough alignment occur in the vicinity of the designed Bay Trail Reach 9B bridge.

This project is accounted for in the following job numbers:
00044026—San Francisco Bay Shoreline
62044042—Shoreline, Early Implementation (Feasibility)

The project is currently funded for the planning phase only. The scope, schedule, costs and funding sources for the design phase and construction phase will be determined at the completion of the planning phase.

PROJECT LOCATION



SCHEDULE & STATUS

July 2003 to December 2013

Phase	Cost
Plan	11,476
Design	573
Construct	-
Closeout	-
	12,049

FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY11	FY12	FY13	FY14	FY15	FY16	FY17	Future	
00044026-San Francisco Bay Shoreline	9,183	1,984	309	0	0	0	0	0	11,476
with inflation	9,183	1,984	309	0	0	0	0	0	11,476
62044042-Shoreline Early Implementation	307	271	0	0	0	0	0	0	578
with inflation	307	271	0	0	0	0	0	0	578
TOTAL	9,490	2,255	309	0	0	0	0	0	12,054
with inflation	9,490	2,255	309	0	0	0	0	0	12,054

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY11	FY12		FY13	FY14	FY15	FY16	FY17	Future	
00044026-San Francisco Bay Shoreline	11,287	378	498	0	0	0	0	0	0	11,665
62044042-Shoreline Early Implementation	372	206	0	0	0	0	0	0	0	578
TOTAL	11,659	584	498	0	0	0	0	0	0	12,243

Adjusted Budget includes adopted budget plus approved budget adjustments. Approved funding exceeds planned expenditures by $189,000. Unspent fudning will be returned to reserves at the end of the project.

FUNDING SOURCES

(in thousands $)

SCVWD Watershed Stream Stewardship Fund	10,232
SCVWD Clean, Safe Creeks and Natural Flood Protection Fund (Environmental Enhancement Grant)	2,011
Total	12,243
Federal Partners, South Bay Salt Ponds (SBSP)	48,470
State, SBSP	14,720
Foundations, Packard-Hewlett-Goldman-Moore, SBSP	17,060
Coastal Conservancy, Shoreline	2,010
Federal, Corps of Engineers, Shoreline	8,990
Total Partnership Funding	91,250

OPERATING COST IMPACTS

Planning Phase Only: The completion of this phase of the project is not anticipated to increase or decrease annual operations costs.

USEFUL LIFE: Not Available

WATER RESOURCES STEWARDSHIP OVERVIEW

The District plans, designs and constructs various capital projects to meet the Board's Ends Policy E-4 "There is water resources stewardship to protect and enhance watersheds and natural resources and improve the quality of life in Santa Clara County." These projects may fulfill environmental enhancement, mitigation or stewardship goals and priorities.

Environmental Commitment Projects

Beginning in FY 2011/12 a fourth sub-category has been added to Water Resources Stewardship to clarify the differences between regulatory-driven and optional environmental enhancements. The new sub-category, Environmental Commitment includeds projects that are implemented to satisfy agreements made with regulatory agencies that improve the watershed environment. In the future, the Environmental commitment sub-category will included some or all of the projects set forth in the Valley Habitat Conservation Plan (Valley HCP) or Three Creeks HCP, both still under development.

Major Capital Improvements Identified in the CIP

- Jacques Gulch

Environmental Enhancement Projects

Environmental Enhancement projects are constructed at the direction of the Board either to meet the Clean, Safe Creeks and Natural Flood Protection program obligations or to meet other Board priorities.

The District's Clean, Safe Creeks Program, approved by the voters of Santa Clara County in 2000, committed funding for environmental enhancement activities that create or restore tidal or riparian habitat. A selection process is conducted biannually to allocate the Clean, Safe Creeks funding to the enhancement opportunities that meet Board-defined characteristics.

Major Capital Improvements Identified in the CIP

- CSC Soap Lake Floodplain Property Acquisition
- FAHCE Stevens Creek Fish Passage Enhancement
- Lake Almaden, Guadalupe River, Los Alamitos Creek Planning

Mitigation Projects

The District manages many mitigation sites and continues to plan, design, and construct new mitigation sites to fulfill CEQA and regulatory permit requirements for both capital projects and operations activities. Mitigation requirements for capital projects may be incorporated into the project scope or accomplished as a separate project.

Major Capital Improvements Identified in the CIP

- Dam Maintenance Mitigation
- SMP Mitigation, Stream and Watershed Land Preservation

Stewardship Projects

Stewardship projects are implemented to promote water quality awareness; reduce pollutants in streams; support additional trails, parks and open space; support creek side recreation; and reduce green house gas. Stewardship projects are implemented at the discretion of the Board when reasonable and appropriate. These projects are often accomplished in partnership with or support of other agencies.

Stewardship projects may be constructed to fulfill the Clean, Safe Creeks (CSC) obligations or to meet other Board priorities. A selection process is conducted biannually to allocate Clean, Safe Creeks funding to the Stewardship projects that meet the CSC requirements.

Major Capital Improvements Identified in the CIP

- Alviso Slough Restoration
- Ogier Ponds Separation from Coyote Creek
- Regnart Creek Stream Stabilization, Bubb Road to Stelling Road

PRIORITY PROCESS AND FINANCIAL ANALYSIS

Environmental Enhancement and Stewardship projects are implemented at the discretion of the Board. Projects may go through a ranking process to compete for Clean, Safe Creeks funds or the board may direct that other available revenue be used to implement the proposed projects. The inclusion of these projects in the Fiscal Year 2012/13 CIP has been approved by the Board. The priority criteria used to evaluate these projects are included in Appendix A.

Implementation of the Mitigation projects is considered non-discretionary since they are needed to meet California Environmental Quality Act (CEQA) or regulatory permit commitments approved by the Board. Funding for mitigation projects is allocated without a prioritization process.

Financial analysis of the following funding sources for Water Resources Stewardship capital improvements was conducted to determine if there are limitations to funding currently planned capital projects.

- Watershed and Stream Stewardship Fund
- Clean, Safe Creeks Fund
- Water Enterprise Fund

Funding needs for approved Water Resources Stewardship projects can be met.

Water Resources Stewardship Capital Improvements

The following table is a project funding schedule for water resources stewardship capital improvements resulting from this year's financial analysis. Detailed information for each project can be found in this document on the following pages in the order presented in this table. The chart also identifies partially funded projects and estimated unspent appropriation from FY 2011/12.

Water Resources Stewardship Capital Improvements ($K)

Project Number	PROJECT NAME	Through FY11	FY12	FY12 Unspent	FY13	FY14	FY15	FY16	FY17	FY18-22	TOTAL
	ENVIRONMENTAL COMMITMENT										
91854002	Jacques Gulch Restoration	5,524	69	97	35	34	85	-	-	-	5,747
	ENVIRONMENTAL ENHANCEMENT										
26074009s	CSC Soap Lake Floodplain Property Acquisition	296	47	-	46	-	-	-	-	-	389
26044001	Lake Almaden, Guadalupe Rv, Los Alamitos Ck Restoration	-	316	177	499	-	56	-	-	-	871
	MITIGATION										
91084018	Dam Maintenance Plan Mitigation	3,000	45	3,025	-	184	-	-	-	-	3,229
62184001	SMP Mitigation, Stream and Watershed Land Preservation	8,633	-	490	-	-	-	-	-	-	8,633
	STEWARDSHIP										
30154029s	Alviso Slough Restoration	3,782	1,528	74	605	10,316	-	-	-	-	16,231
00294001s	FAHCE Stevens Creek Fish Passage Enhancement	850	-	-	-	-	-	2,820	5,772	4,600	14,042
30154028	Gold Street Educational Center	2,283	363	-	15	33	-	-	-	-	2,694
92C40297	Ogier Ponds Separation from Coyote Creek	-	-	-	-	-	-	-	-	2,990	2,990
20C40316	Regnart Creek Stream Stabilization, Bubb to Stelling Rds.	-	-	-	-	523	403	1,600	-	-	2,526
62214001	Thompson Creek Stream Stabilization, Quimby to Aborn Rds.	2,256	-	2,024	-	-	-	-	-	-	2,256
	TOTAL	26,624	2,368	5,887	1,200	11,090	544	4,420	5,772	7,590	59,608

FY 2011/12 Funds to be reappropriated

The following table shows funding requirements from each funding source for mitigation capital improvements.

Water Resources Stewardship – Funding Sources ($K)

Project Number	PROJECT NAME	Through FY11	FY12	FY12 Unspent	FY13	FY14	FY15	FY16	FY17	FY18-22	TOTAL
	Water Enterprise Fund	9,289	114	3,122	35	218	85	2,538	5,195	7,130	24,604
	Watershed Stream Stewardship Fund	17,039	1,891	2,588	666	10,872	403	1,882	577	460	33,790
	Clean, Safe Creeks and Natural Flood Protection Fund	296	363	177	499	-	56	-	-	-	1,214
	TOTAL	26,624	2,368	5,887	1,200	11,090	544	4,420	5,772	7,590	59,608

FY 2011/12 Funds to be reappropriated

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Project	**Jacques Gulch Restoration**
Program	Water Resources Stewardship – Commitment
Priority No.	85
Project No.	91854002
District Contact	Melanie Richardson mrichardson@valleywater.org

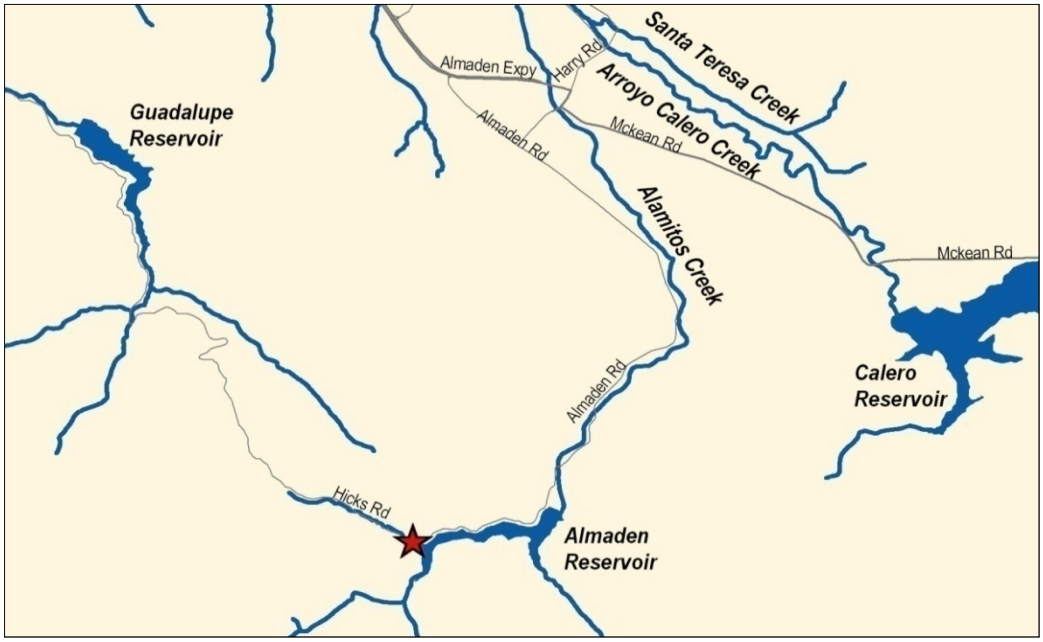
Geotechnical analysis of calcine deposits to determine mercury depth and concentration

PROJECT DESCRIPTION

This project plans, designs and constructs improvements to Jacques Gulch, a tributary to the Almaden Reservoir, to accomplish the following objectives:

- Remove mercury calcine deposits.
- Stabilize the stream banks and restore habitat along Jacques Gulch, consistent with provisions of the Consent Decree.

PROJECT LOCATION



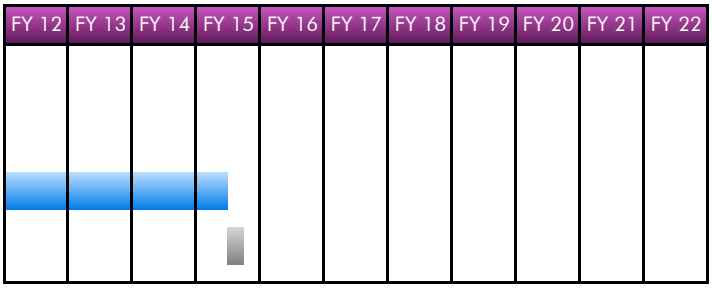
★ Project Location

SCHEDULE & STATUS

July 2003 to March 2015

Planning phase is complete. Design phase is complete. Construction phase includes 5 years of plant establishment monitoring.

Phase	Cost
Plan	1,543
Design	471
Construct	3,670
Closeout	54
	5,738



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY11	FY12	FY13	FY14	FY15	FY16	FY17	Future	
91854002-Jacques Gulch Restoration	5,326	170	132	32	78	0	0	0	5,738
with inflation	5,326	170	132	34	85	0	0	0	5,747

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY11	FY12		FY13	FY14	FY15	FY16	FY17	Future	
91854002-Jacques Gulch Restoration	5,524	69	97	35	34	85	0	0	0	5,747

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	5,622
Guadalupe Rubbish Disposal Company	125
County of Santa Clara	237
Total	5,747
County Partner–Santa Clara County	4,000

OPERATING COST IMPACTS

The completion of this project is anticipated to increase operating costs by approximately $5,000 per year, beginning in FY 2016. Increases are related to the anticipated need for annual inspection of the Alamitos Road culvert, and periodic vegetation and/or debris removal upstream and downstream of the culvert.

USEFUL LIFE: 50+ Years

Project	**CSC Soap Lake Floodplain Property Acquisition**
Program	Water Resources Stewardship – Environmental Enhancement
Priority No.	55
Project No.	26074009s
District Contact	Melanie Richardson mrichardson@valleywater.org

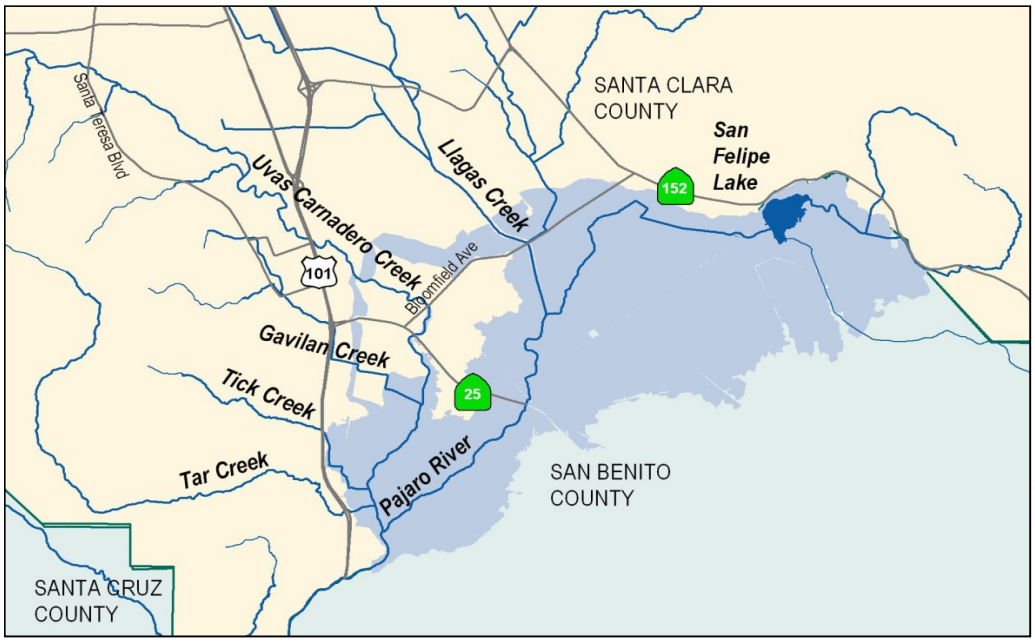
The Soap Lake floodplain is comprised almost entirely of agricultural lands such as this, located near Carnadero Creek

PROJECT DESCRIPTION

This project partners with various regional stakeholders to acquire easements or property as recommended by the Pajaro River Flood Prevention Authority's Soap Lake Preservation Project to accomplish the following objectives:

- Secure development rights to prevent development and preserve the Pajaro River floodplain referred to as the Soap Lake floodplain.
- Implement environmental, floodplain, and water quality measures, consistent with the voter-approved Clean, Safe Creeks and Natural Flood Protection Environmental Enhancement Program (EEP) Outcome #3 objective: Create wetlands, riparian habitat, and favorable stream conditions for fisheries and wildlife.

PROJECT LOCATION



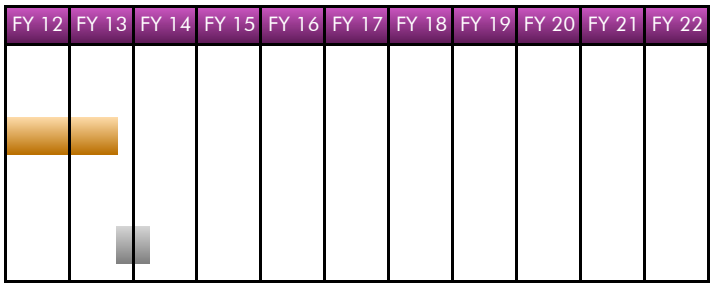
1 Percent Floodplain

SCHEDULE & STATUS

July 2007 to June 2013

Schedule for this project is dependent on availability of willing sellers. Property acquisition is shown in the design phase. Planning and construction phases do not apply.

Phase	Cost
Plan	47
Design	337
Construct	n/a
Closeout	5
	389



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY11	FY12	FY13	FY14	FY15	FY16	FY17	Future	
26074009-CSC Soap Lake Floodplain Property Acquisition	82	261	0	0	0	0	0	0	343
with inflation	82	261	0	0	0	0	0	0	343
50164009-CSC Soap Lake Floodplain Property Acquisition	0	0	46	0	0	0	0	0	46
with inflation	0	0	46	0	0	0	0	0	46
TOTAL	82	261	46	0	0	0	0	0	389
with inflation	82	261	46	0	0	0	0	0	389

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY11	FY12		FY13	FY14	FY15	FY16	FY17	Future	
26074009-CSC Soap Lake Floodplain Property Acquisition	296	47	0	0	0	0	0	0	0	343
50164009-CSC Soap Lake Floodplain Property Acquisition	0	0	0	46	0	0	0	0	0	46
TOTAL	296	47	0	46	0	0	0	0	0	389

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Clean, Safe Creeks and Natural Flood Protection Fund (Environmental Enhancement Grant)	250
SCVWD Watershed Stream Stewardship Fund	139
Total	389

OPERATING COST IMPACTS

Since the District is not likely to hold title on the properties acquired, the completion of this project is not anticipated to increase or decrease annual operating costs.

USEFUL LIFE: Not Available

Project	**Lake Almaden, Guadalupe River, Alamitos Creek Restoration**
Program	Water Resources Stewardship – Environmental Enhancement
Priority No.	35
Project No.	26044001
District Contact	Melanie Richardson mrichardson@valleywater.org

Looking southerly at Lake Almaden, which has fish with the highest concentrations of mercury in California in 2010.

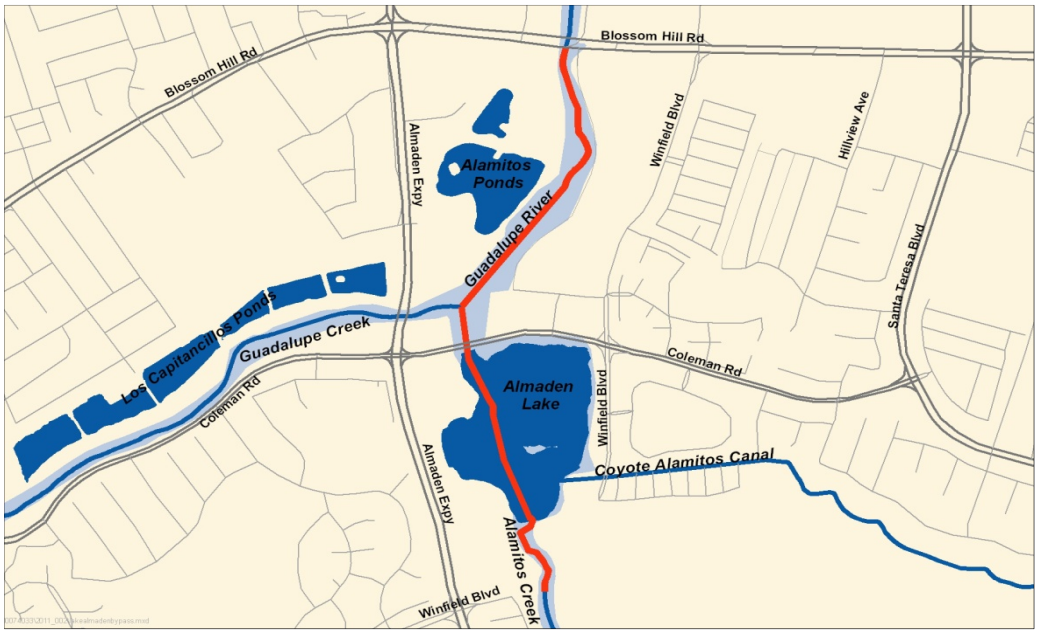
PROJECT DESCRIPTION

This project plans, designs, and constructs improvements at Guadalupe River from Blossom Hill Road to the Guadalupe Creek/Alamitos Creek confluence, and Alamitos Creek from the Guadalupe Creek confluence to Winfield Boulevard, including Lake Almaden, to accomplish the following objectives:

- Address state and federal requirements for protection of endangered species for activities related to water supply operations, dam maintenance program, and certain flood protection activities.
- Comply with regulatory requirements to reduce mercury contamination in fish.
- Restore stream function and incorporate geomorphologic features along portions of Guadalupe River and Alamitos Creek.
- Provide100-year level of flood protection extending from upstream of Blossom Hill Road to downstream of Winfield Boulevard.
- Enhance environmental and recreational features.

This project is funded for the planning phase (including some early design tasks). The scope, schedule, costs, and funding sources for design and construction will be determined at the completion of the planning phase.

PROJECT LOCATION



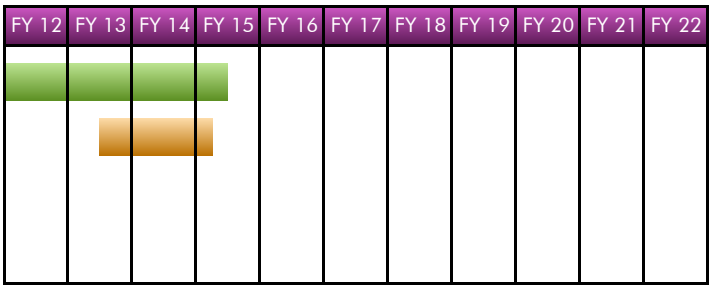
Project Location
1 Percent Floodplain

SCHEDULE & STATUS

July 2011 to June 2013

Planning Phase and some Design Tasks. Construction is not funded at this time.

Phase	Cost
Plan	841
Design	-
Construct	-
Closeout	-
	841



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY11	FY12	FY13	FY14	FY15	FY16	FY17	Future	
26044001-Lake Almaden, Guadalupe River, Alamitos Creek Restoration	0	139	263	358	81	0	0	0	841
with inflation	0	139	263	380	89	0	0	0	870

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY11	FY12		FY13	FY14	FY15	FY16	FY17	Future	
26044001-Lake Almaden, Guadalupe River, Alamitos Creek Restoration	0	316	177	499	0	56	0	0	0	870

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Clean, Safe Creeks and Natural Flood Protection Fund	870
Other Funding Source	0
Total	870

OPERATING COST IMPACTS

Planning Phase Only: No operating cost impacts are expected from the completion of this phase of the project.

USEFUL LIFE: 100 Years

Project	**Dam Maintenance Mitigation Program**
Program	Water Resources Stewardship – Mitigation
Priority No.	99
Project No.	91084018
District Contact	Frank Maitski fmaitski@valleywater.org

Settings such as this will be used for Habitat Preservation. Actual locations will differ.

PROJECT DESCRIPTION

This project preserves and/or restores habitat for California tiger salamander, red-legged frog and sensitive serpentine plants on lands in the Santa Clara Basin and implements appropriate restorations in these lands to accomplish the following objectives:

- Provide 80 acres of Dam Maintenance Program mitigation credits through preservation and/or restoration in Santa Clara County to provide long-term protection of unique and valuable resources in a largely self-sustaining setting. These credits will offset impacts on habitats that are known to support California tiger salamanders, California red-legged frogs, wetlands, serpentine plants as well as other sensitive plants.
- Perform baseline biological studies in order to determine potential credits of prospective land parcels.

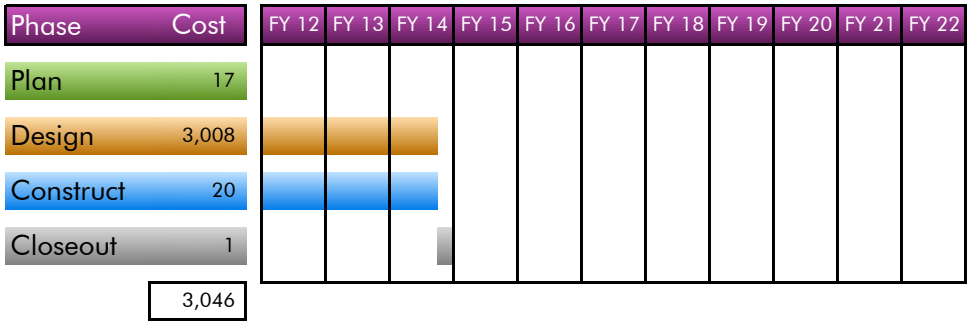
PROJECT LOCATION

The project will purchase multiple sites for preservation in Santa Clara Basin as they become available.
No map is provided.

SCHEDULE & STATUS

September 2009 to May 2014

Land acquisition is shown in the design phase, and restoration of site habitat will be shown in the construction phase.



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY11	FY12	FY13	FY14	FY15	FY16	FY17	Future	
91084018-Dam Maintenance Mitigation Program	7	13	21	3,005	0	0	0	0	3,046
with inflation	7	13	21	3,188	0	0	0	0	3,229

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY11	FY12		FY13	FY14	FY15	FY16	FY17	Future	
91084018-Dam Maintenance Mitigation Program	3,000	45	3,025	0	184	0	0	0	0	3,229

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	3,229
Other Funding Source	0
Total	3,229

OPERATING COST IMPACTS

Operating costs will vary, depending on the type of acquisition ownership and requirements for maintenance of each site. Once the sites have been identified, operating costs will be determined based on the existing conditions and maintenance identified for each site.

USEFUL LIFE: 50+ Years

Project	**SMP Mitigation Stream and Watershed Land Preservation**
Program	Water Resources Stewardship – Mitigation
Priority No.	99
Project No.	62184001
District Contact	Melanie Richardson mrichardson@valleywater.org

Creek-side settings such as this will be used for stream and watershed land preservation. Actual locations will differ.

PROJECT DESCRIPTION

This project preserves streams and watershed lands in the Santa Clara Basin and implements appropriate restorations in these lands to accomplish the following objectives:

- Provide 71 acres of Stream Maintenance Program (SMP) mitigation credits through preservation of approximately 720 to 950 acres of streams and watershed lands to provide long-term protection of unique and valuable local stream resources and watersheds, in a largely self-sustaining setting. Approximately 108 acres of the total land preservation will be for protection of riparian and upland habitats that are known to support California red-legged frogs and Western pond turtles.
- Provide approximately 10 acres of SMP mitigation credits through environmental restoration on the lands acquired.
- Seek opportunities to partner with other organizations to accomplish the project objectives.

PROJECT LOCATION

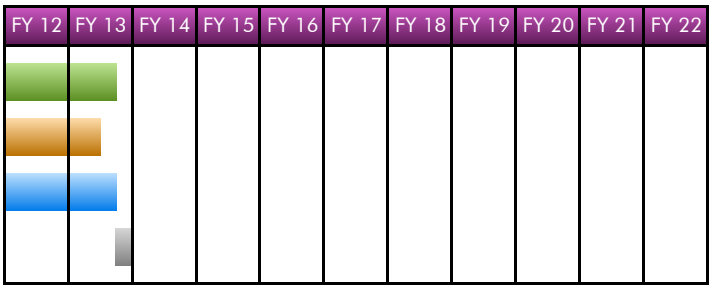
The project will purchase multiple sites for preservation in Santa Clara Basin as they become available.
No map is provided.

SCHEDULE & STATUS

July 2003 to June 2013

Some environmental tasks in the planning phase continue thru construction. Land acquisition is shown in the design phase, with restoration of site habitat shown in the construction phase.

Phase	Cost
Plan	1,006
Design	7,236
Construct	10
Closeout	10
	8,262



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures						Total
Project	FY11	FY12	FY13	FY14	FY15	FY16	FY17	Future	
62184001-SMP Mitigation Stream and Watershed Land Preservation	3,122	5,021	119	0	0	0	0	0	8,262
with inflation	3,122	5,021	119	0	0	0	0	0	8,262

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY11	FY12		FY13	FY14	FY15	FY16	FY17	Future	
62184001-SMP Mitigation Stream and Watershed Land Preservation	8,633	0	490	0	0	0	0	0	0	8,633

Adjusted Budget includes adopted budget plus approved budget adjustments. Project funding exceeds planned expenditures by approximately $371,000. Excess funding will roll to reserves at the end of the project.

FUNDING SOURCES

(in thousands $)

SCVWD Watershed Stream Stewardship Fund	8,633
Other Funding Source	0
Total	8,633

OPERATING COST IMPACTS

Operating cost will vary, depending on the type of acquisition ownership and requirements for maintenance of each site. The Stevens Canyon Ranch Conservation Easement was acquired in December 2006 and there are no operating impacts to the District. The property owner, Mid-Peninsula Regional Open Space District is responsible for maintenance and management of the site.

USEFUL LIFE: 50+ Years

Project	**Alviso Slough Restoration**
Program	Water Resources Stewardship
Priority No.	24
Project No.	30154029s
District Contact	Melanie Richardson mrichardson@valleywater.org

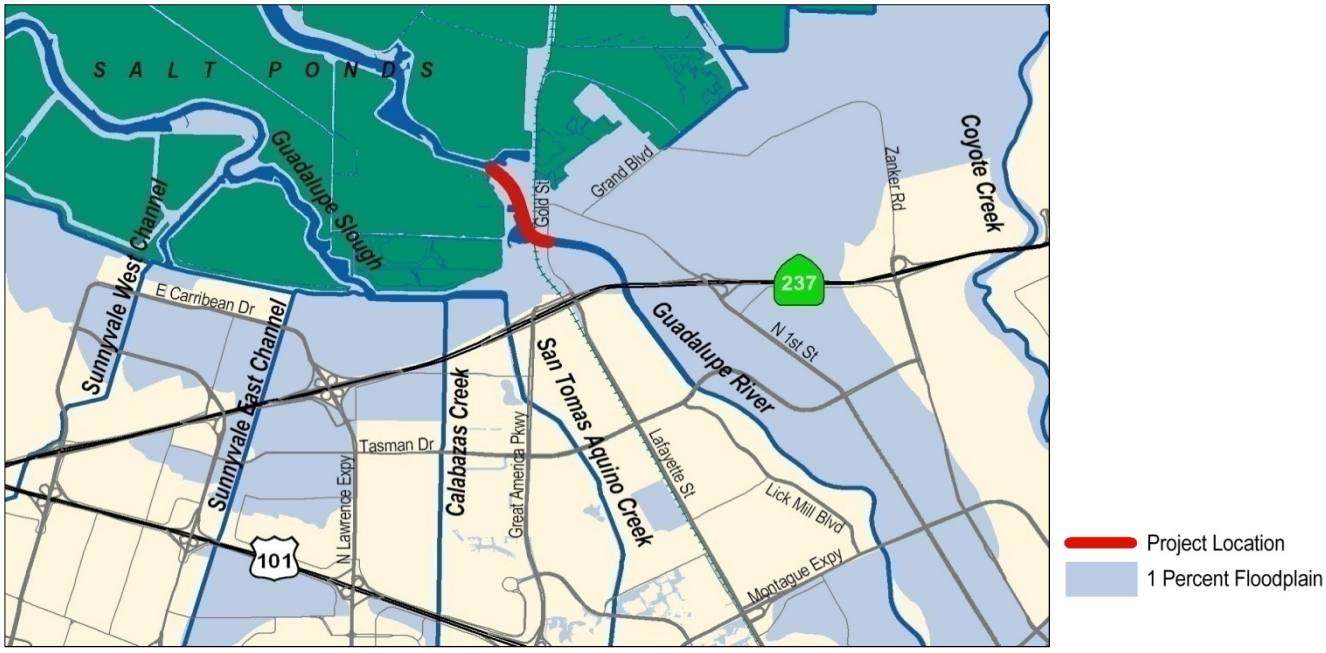
Alviso Slough as seen from Gold Street Bridge

PROJECT DESCRIPTION

This project plans, designs and provides for the removal of vegetation over 3.7 acres, and dredging within that same footprint to a depth of 8 feet from Alviso Slough between the Gold Street Bridge and County Marina to accomplish the following objectives:

- Restore the slough's open water channel width to conditions that existed prior to 1983.
- Improve navigation so the community can expand on boating and other recreational opportunities.
- Restore historic and public access and aesthetics for the Alviso community.
- Maintain one-percent flood protection in Alviso Slough.
- Reduce mosquito nuisance.
- Expand open water habitat and inundated mudflat habitat of the slough.
- Promote integration with the Salt Pond Restoration Program to bring salt water connections to the Lower Guadalupe River.

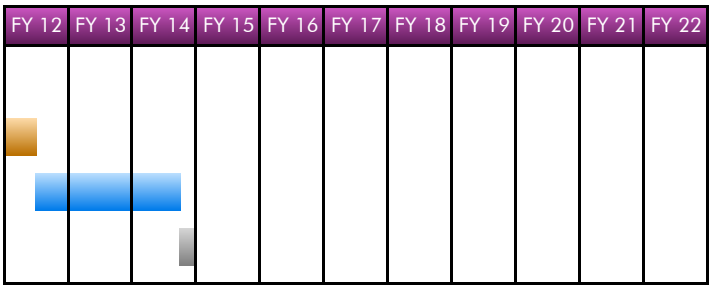
PROJECT LOCATION



SCHEDULE & STATUS

November 2004 to June 2014

Phase	Cost
Plan	3,767
Design	700
Construct	11,053
Closeout	30
	15,550



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY11	FY12	FY13	FY14	FY15	FY16	FY17	Future	
30154029-Alviso Slough Restoration - Planning	2,894	0	0	0	0	0	0	0	2,894
with inflation	2,894	0	0	0	0	0	0	0	2,894
30154030-Alviso Slough Restoration - Design & Construction	494	1,848	619	9,724	0	0	0	0	12,685
with inflation	494	1,848	619	10,316	0	0	0	0	13,277
TOTAL	3,388	1,848	619	9,724	0	0	0	0	15,579
with inflation	3,388	1,848	619	10,316	0	0	0	0	16,171

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY11	FY12		FY13	FY14	FY15	FY16	FY17	Future	
30154029-Alviso Slough Restoration - Planning	2,954	0	60	0	0	0	0	0	0	2,954
30154030-Alviso Slough Restoration - Design & Construction	828	1,528	14	605	10,316	0	0	0	0	13,277
TOTAL	3,782	1,528	74	605	10,316	0	0	0	0	16,231

Adjusted Budget includes adopted budget plus approved budget adjustments. Project funding exceeds expenditures by approximately $60,000. Excess funds will be returned to reserves at the end of the project.

FUNDING SOURCES

(in thousands $)

SCVWD Watershed Stream Stewardship Fund	16,231
Other Funding Source	0
Total	16,231

OPERATING COST IMPACTS

The completion of this project is anticipated to increase operating costs by approximately $4 million every 3 years, beginning in FY 2015, for on-going sediment removal.

USEFUL LIFE: Not Available

Project	**FAHCE Stevens Creek Fish Passage Enhancement**
Program	Water Resources Stewardship
Priority No.	65
Project No.	00294001s
District Contact	Melanie Richardson mrichardson@valleywater.org

Stevens Creek Fish Ladder at Evelyn Avenue, one of three fish ladders to be modified or reconstructed for better fish passage

PROJECT DESCRIPTION

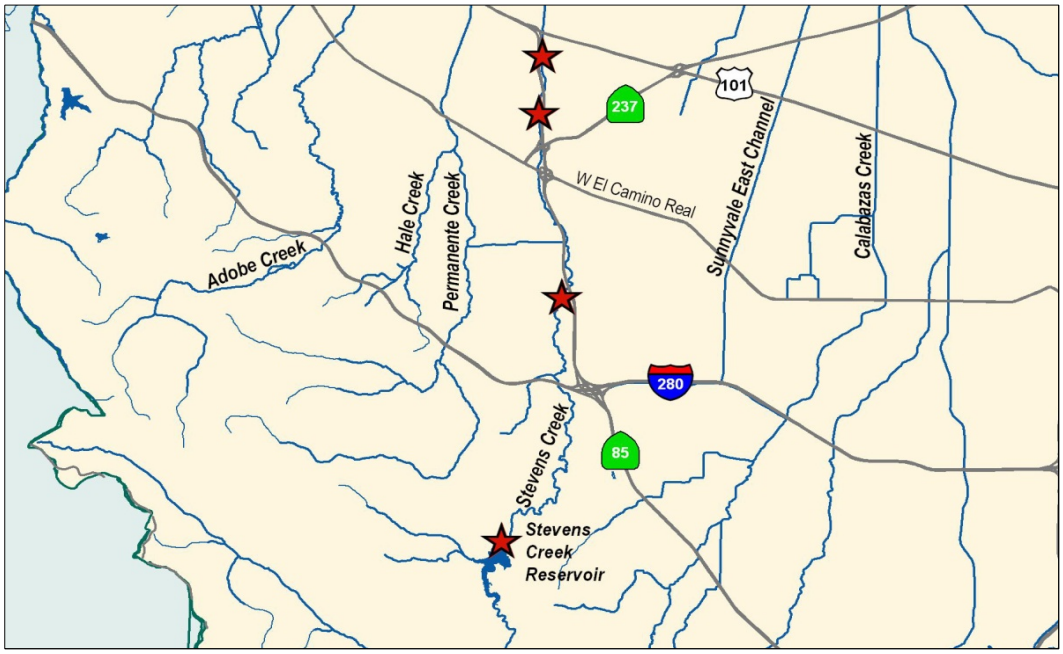
This project plans, designs, and modifies or reconstructs fish passages on Stevens Creek at Evelyn Avenue, Fremont Avenue and Moffett Boulevard; and constructs a portable, gravity-fed outlet at Stevens Creek Dam to accomplish the following objectives:

- Meet the District's mitigation obligation resulting from the Fish and Aquatic Habitat Collaborative Effort (FAHCE).
- Restore and maintain a healthy steelhead trout population in the Stevens Creek watershed.
- Provide a suitable spawning and rearing habitat below Stevens Creek Dam within a cold water management zone determined on an annual basis through the development of an operations plan.
- Provide adequate passage for adult steelhead trout to reach suitable spawning and rearing habitat and for out-migration of juveniles.

This project is accounted for in the following job numbers:

- 00294001—Fish Passage Planning
- 00C40144—Evelyn Avenue Fish Ladder
- 00C40146—Fremont Avenue Fish Ladder
- 00C40145—Moffett Boulevard Fish Ladder
- 00C40198—Multi-Port Outlet at Dam

PROJECT LOCATION



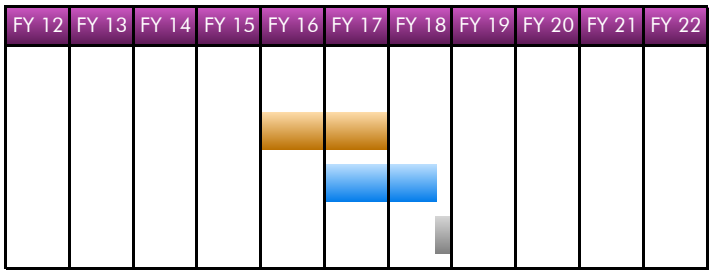
★ Project Location

SCHEDULE & STATUS

July 2008 to June 2018

Planning phase is complete. Project on hold for one year pending completion of the Three Creeks Habitat Conservation Plan, to be done in a separate operating project.

Phase	Cost
Plan	1,134
Design	2,993
Construct	7,955
Closeout	31
	12,113



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY11	FY12	FY13	FY14	FY15	FY16	FY17	Future	
00294001-FAHCE Stevens Ck Fish Passage Planning	850	0	0	0	0	0	0	0	850
with inflation	850	0	0	0	0	0	0	0	850
00C40144-FAHCE Stevens Ck Fish Ladder at Evelyn Ave	0	0	0	0	0	990	1,454	0	2,444
with inflation	0	0	0	0	0	1,114	1,686	0	2,800
00C40146-FAHCE Stevens Ck Fish Ladder at Fremont Ave	0	0	0	0	0	289	773	3,779	4,841
with inflation	0	0	0	0	0	326	896	4,600	5,821
00C40145-FAHCE Stevens Ck Fish Ladder at Moffett Blvd	0	0	0	0	0	976	1,779	0	2,755
with inflation	0	0	0	0	0	1,099	2,062	0	3,161
00C40198-FAHCE Stevens Ck Dam Multi-Port Outlet	0	0	0	0	0	249	973	0	1,223
with inflation	0	0	0	0	0	281	1,128	0	1,409
TOTAL	**850**	**0**	**0**	**0**	**0**	**2,505**	**4,979**	**3,779**	**12,113**
with inflation	**850**	**0**	**0**	**0**	**0**	**2,819**	**5,772**	**4,600**	**14,041**

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY11	FY12		FY13	FY14	FY15	FY16	FY17	Future	
00294001-FAHCE Stevens Ck Fish Passage Planning	850	0	0	0	0	0	0	0	0	850
00C40144-FAHCE Stevens Ck Fish Ladder at Evelyn Ave	0	0	0	0	0	0	1,114	1,686	0	2,800
00C40146-FAHCE Stevens Ck Fish Ladder at Fremont Ave	0	0	0	0	0	0	326	896	4,600	5,821
00C40145-FAHCE Stevens Ck Fish Ladder at Moffett Blvd	0	0	0	0	0	0	1,099	2,062	0	3,161
00C40198-FAHCE Stevens Ck Dam Multi-Port Outlet	0	0	0	0	0	0	281	1,128	0	1,409
TOTAL	**850**	**0**	**0**	**0**	**0**	**0**	**2,819**	**5,772**	**4,600**	**14,041**

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Watershed Stream Stewardship Fund–10%	1,404
SCVWD Water Utility Enterprise (FAHCE Program)–90%	12,637
Total	**14,041**

OPERATING COST IMPACTS

The completion of this project is anticipated to decrease operating costs by approximately $12,000 per year beginning in FY 2019, due to reductions in routine maintenance and debris removal.

USEFUL LIFE: 50 Years

Project	**Gold Street Educational Center**
Program	Water Resources Stewardship
Priority No.	8
Project No.	30154028
District Contact	Melanie Richardson mrichardson@valleywater.org

Proposed location of the Gold Street Educational Center on State Lands Commission property adjacent to the Guadalupe River

PROJECT DESCRIPTION

This project plans, designs, and constructs improvements at Gold Street, adjacent to the Guadalupe River in Alviso, to provide an outdoor educational center for the Alviso community that may incorporate the following elements:

- Interpretive displays.
- Landscaping with native vegetation.
- A trailhead that links to recreation trails.

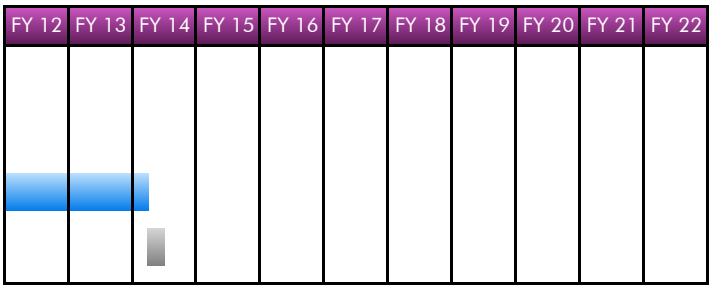
PROJECT LOCATION

SCHEDULE & STATUS

December 2004 to December 2013

Planning phase is complete.

Phase	Cost
Plan	356
Design	888
Construct	1,132
Closeout	10
	2,386



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY11	FY12	FY13	FY14	FY15	FY16	FY17	Future	
30154028-Gold Street Educational Center	2,321	325	15	31	0	0	0	0	2,692
with inflation	2,321	325	15	33	0	0	0	0	2,694

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY11	FY12		FY13	FY14	FY15	FY16	FY17	Future	
30154028-Gold Street Educational Center	2,283	363	0	15	33	0	0	0	0	2,694

Adjusted Budget includes adopted budget plus a planned budget adjustment of $41,000.

FUNDING SOURCES

(in thousands $)

SCVWD Watershed Stream Stewardship Fund	2,694
Other Funding Source	0
Total	2,694

OPERATING COST IMPACTS

The completion of this project is anticipated to increase operating costs by approximately $30,000 per year, beginning in FY 2014. Increases are for vegetation and landscape maintenance, security services, and restroom maintenance and cleaning.

USEFUL LIFE: 50+ Years

Project	**Ogier Ponds Separation from Coyote Creek**
Program	Water Resources Stewardship
Priority No.	35
Project No.	92C40297
District Contact	Melanie Richardson mrichardson@valleywater.org

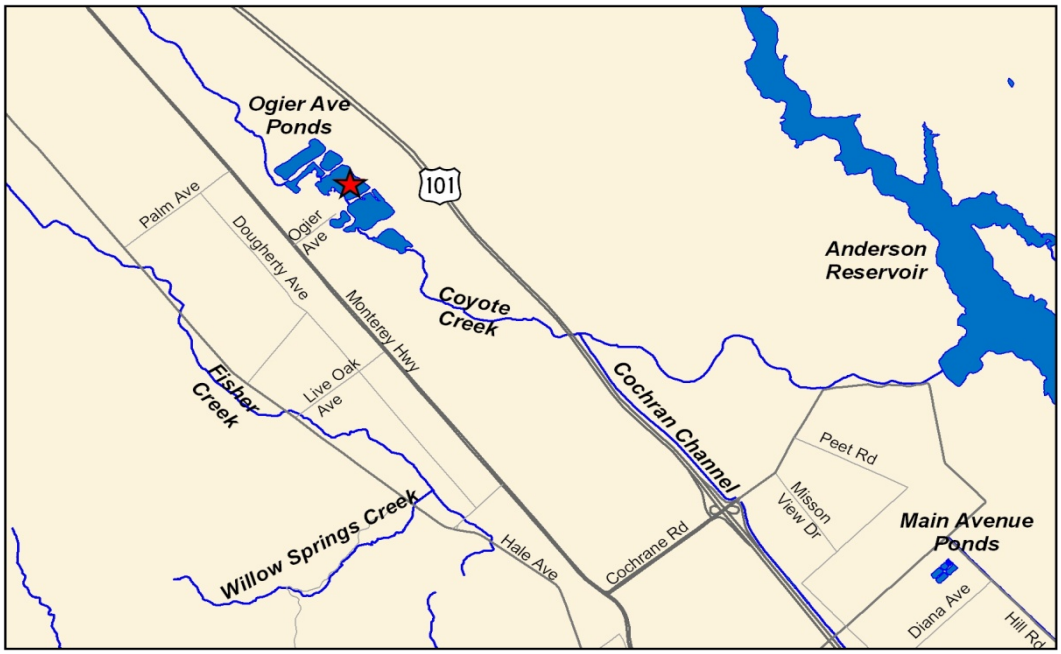
Ogier Pond complex looking downstream. Coyote Creek enters in lower right. The pond is bordered by Coyote Creek Trail on the right, and a cherry orchard on the left.

PROJECT DESCRIPTION

This project plan, designs, and constructs improvements to separate Ogier Ponds from Coyote Creek where they meet, approximately 3,800 feet upstream of Ogier Avenue in San Jose, to meet the following objectives:

- Meet regulatory requirements for implementation of the Dam Maintenance Program so the District can continue to maintain adequate water supply for Santa Clara Valley residents.
- Eliminate the temperature and predation traps and improve passage for Chinook salmon and steelhead trout.
- Preserve the existing open water habitat.
- Minimize impacts to the future recreational uses being planned by Santa Clara County.

PROJECT LOCATION

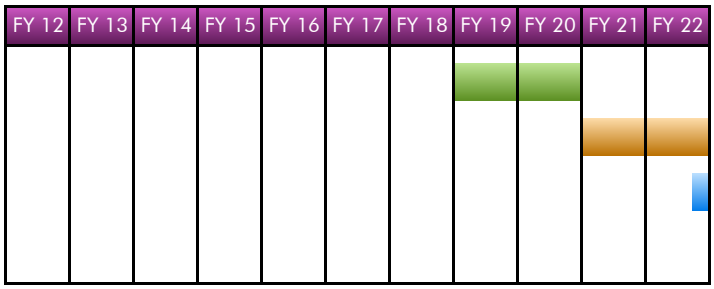


★ Project Location

SCHEDULE & STATUS

July 2018 to June 2025

Phase	Cost
Plan	1,914
Design	2,049
Construct	6,686
Closeout	10
	10,658



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY11	FY12	FY13	FY14	FY15	FY16	FY17	Future	
92C40297-Ogier Ponds Separation from Coyote Creek	0	0	0	0	0	0	0	2,132	2,132
with inflation	0	0	0	0	0	0	0	2,990	2,990

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY11	FY12		FY13	FY14	FY15	FY16	FY17	Future	
92C40297-Ogier Ponds Separation from Coyote Creek	0	0	0	0	0	0	0	0	2,990	2,990

FUNDING SOURCES

(in thousands $)

Water Utility Enterprise Fund	2,990
Other Funding Source	0
Total	2,990

OPERATING COST IMPACTS

The completion of this project is anticipated to increase operating costs for routine maintenance of the channel. The amount of the increase will be developed in the design phase, when adequate information on the staff-recommended alternative is available.

USEFUL LIFE: 50+ Years

Project	**Regnart Creek Stream Stabilization, Bubb to Stelling Roads**
Program	Water Resources Stewardship
Priority No.	29
Project No.	20C40316
District Contact	Melanie Richardson mrichardson@valleywater.org

Erosion on Regnart Creek

PROJECT DESCRIPTION

This project plans, designs, and constructs erosion repairs along approximately 3,320 feet of Regnart Creek, from Bubb Road to Stelling Road, to accomplish the following objectives:

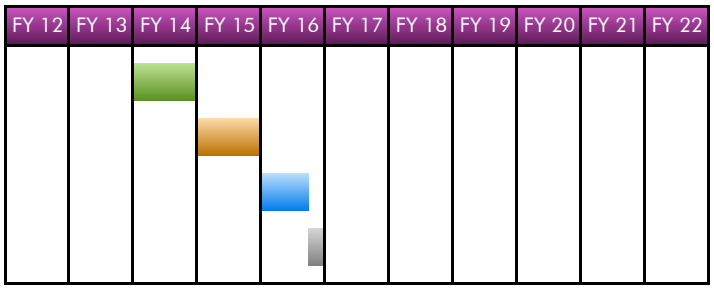
- Minimize impacts to adjacent homes and roads from bank erosion and channel incision.
- Improve water quality in Regnart Creek by reducing sediment deposition from bank erosion and channel incision.

PROJECT LOCATION

SCHEDULE & STATUS

July 2012 to June 2015

Phase	Cost
Plan	493
Design	369
Construct	1,411
Closeout	10
	2,284



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY11	FY12	FY13	FY14	FY15	FY16	FY17	Future	
20C40316-Regnart Creek Stream Stabilization, Bubb to Stelling Roads	0	0	0	493	369	1,421	0	0	2,284
with inflation	0	0	0	523	403	1,600	0	0	2,526

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY11	FY12		FY13	FY14	FY15	FY16	FY17	Future	
20C40316-Regnart Creek Stream Stabilization, Bubb to Stelling Roads	0	0	0	0	523	403	1,600	0	0	2,526

FUNDING SOURCES

(in thousands $)

SCVWD Watershed Stream Stewardship Fund	2,526
Other Funding Source	0
Total	2,526

OPERATING COST IMPACTS

Operating cost impacts will be determined during the design phase.

USEFUL LIFE: 30+ Years

Project	**Thompson Creek Stream Stabilization, Quimby to Aborn Roads**
Program	Water Resources Stewardship
Priority No.	25
Project No.	62214001
District Contact	Melanie Richardson mrichardson@valleywater.org

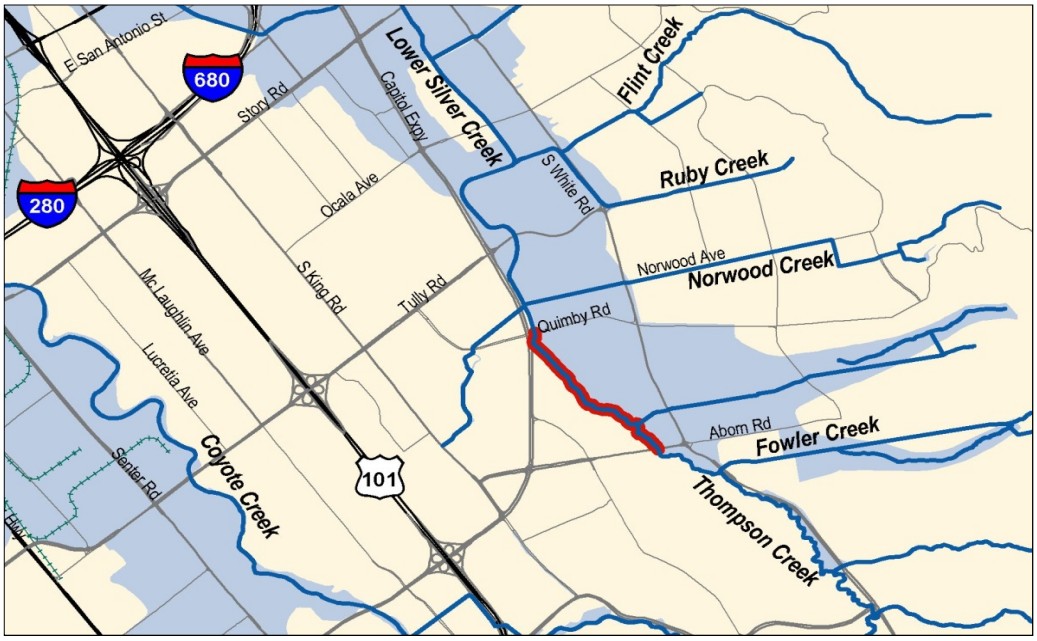
Severe bank erosion and undercutting of mature riparian habitat results in significant sedimentation in downstream reaches of Thompson Creek.

PROJECT DESCRIPTION

This project coordinates with the U.S. Army Corps of Engineers under the Aquatic Ecosystem Restoration Program (Section 206 Program) to plan, design, and construct improvements along 1.2 miles of Thompson Creek, from Quimby Road to Aborn Road, and accomplishes the following objectives:

- Restore the low-flow channel to an equilibrium state.
- Restore riparian habitat adjacent to the low-flow channel.
- Improve water quality and provide diverse stream channel habitats.
- Provide erosion protection along the creek.
- Identify enhancement opportunities.

PROJECT LOCATION

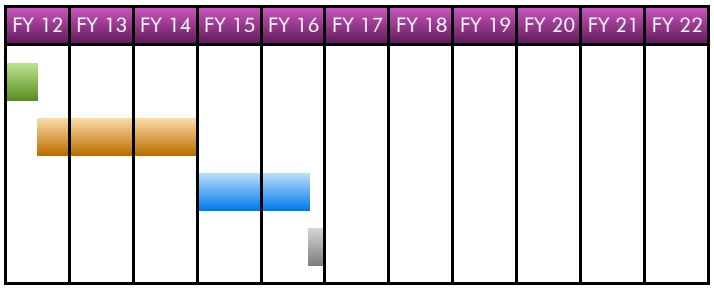


Project Location
1 Percent Floodplain

SCHEDULE & STATUS

July 2003 to June 2016

Phase	Cost
Plan	184
Design	201
Construct	1,652
Closeout	20
	2,057



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY11	FY12	FY13	FY14	FY15	FY16	FY17	Future	
62214001-Thompson Creek Stream Stabilization, Quimby to Aborn Roads	94	138	88	1,565	76	96	0	0	2,057
with inflation	94	138	88	1,660	83	108	0	0	2,171

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY11	FY12		FY13	FY14	FY15	FY16	FY17	Future	
62214001-Thompson Creek Stream Stabilization, Quimby to Aborn Roads	2,256	0	2,024	0	0	0	0	0	0	2,256

Adjusted Budget includes adopted budget plus approved budget adjustments. Approved funding exceeds planned expenditures by $85,000. Excess funding will be returned to reserves at the end of the project.

FUNDING SOURCES

(in thousands $)

SCVWD Watershed Stream Stewardship Fund	2,256
Other Funding Source	0
Total	2,256
Federal Partner—Corps of Engineers	4,415

Of the total project cost, the Corps of Engineers will cost-share 65 percent, up to $5 million.

OPERATING COST IMPACTS

Operating cost impacts from the construction of this project will be developed during the planning phase.

USEFUL LIFE: 30+ Years

Building and Grounds Capital Improvements

BUILDINGS AND GROUNDS OVERVIEW

The District's Almaden-Winfield campus occupies nearly 50 acres along Almaden Expressway in the City of San Jose. The District manages the campus to ensure a healthful and safe work environment for employees and visitors. The campus includes 10 buildings, multiple parking lots, a corporation yard, landscaping, and other appurtenances.

With most of the buildings on campus over 30 years old, the rehabilitation needs increased steadily in recent years. The District administers an asset management program for its buildings and grounds infrastructure that includes a schedule for maintenance and rehabilitation to ensure that each facility functions as intended over its useful life.

In January of 2012 the Board approved recommendations from the Ad Hoc Committee to implement the Campus Master Plan which includes the following:

- Repair and rehabilitate the existing Corporation yard.
- Repair Winfield Warehouse and Winfield Vegetation buidlings.
- Replace the Maintenance Office and Ready Room buildings.

Major Capital Improvements Identified in the CIP

- Almaden & Winfield Campus Small Capital Improvements

PRIORITY PROCESS AND FINANCIAL ANALYSIS

A rigorous priority setting process was conducted to rate the buildings and grounds projects against other types of capital improvements. The priority criteria used are included in Appendix A.

Financial analysis of the following funding sources for buildings and grounds capital improvements was conducted to determine if there are limitations to funding all the proposed capital projects.

- Watershed and Stream Stewardship Fund
- General Fund
- Water Enterprise Fund

Results of this year's prioritization process and financial analysis are summarized in Appendix B. The process concluded that the Almaden and Winfield Campus Small Capital Improvements will continue to be funded at $2 million per year to meet the higher priority Buildings and Grounds needs. The first of the projects from the Campus Master Plan will start in FY 2012/13 and was incorporated into this CIP.

Building and Grounds Capital Improvements

The following table is a project funding schedule for buildings and grounds capital improvements resulting from this year's priority process and financial analysis. Detailed information for each project can be found in this document on the following pages in the order presented in this table. The chart also identifies partially funded projects and estimated unspent appropriation from FY 2011/12.

Buildings and Grounds Capital Improvements ($K)

Project Number	PROJECT NAME	Through FY11	FY12	FY12 Unspent	FY13	FY14	FY15	FY16	FY17	FY18-22	TOTAL
60204016	Almaden and Winfield Campus, Small Capital Improvements	n/a	2,048	-	2,060	2,122	2,185	2,251	2,319	12,680	25,665
60204021	Winfield Capital Improvements	-	-	-	1,506	7,969	656	-	-	-	10,131
	TOTAL	-	2,048	-	3,566	10,091	2,841	2,251	2,319	12,680	35,796

FY 2011/12 Funds to be reappropriated

The following table shows funding requirements from each funding source for buildings and grounds capital improvements.

Buildings and Grounds – Funding Sources ($K)

Project Number	PROJECT NAME	Through FY11	FY12	FY12 Unspent	FY13	FY14	FY15	FY16	FY17	FY18-22	TOTAL
	General Fund	-	2,048	-	3,566	10,091	2,841	2,251	2,319	12,680	35,796
	TOTAL	-	2,048	-	3,566	10,091	2,841	2,251	2,319	12,680	35,796

FY 2011/12 Funds to be reappropriated

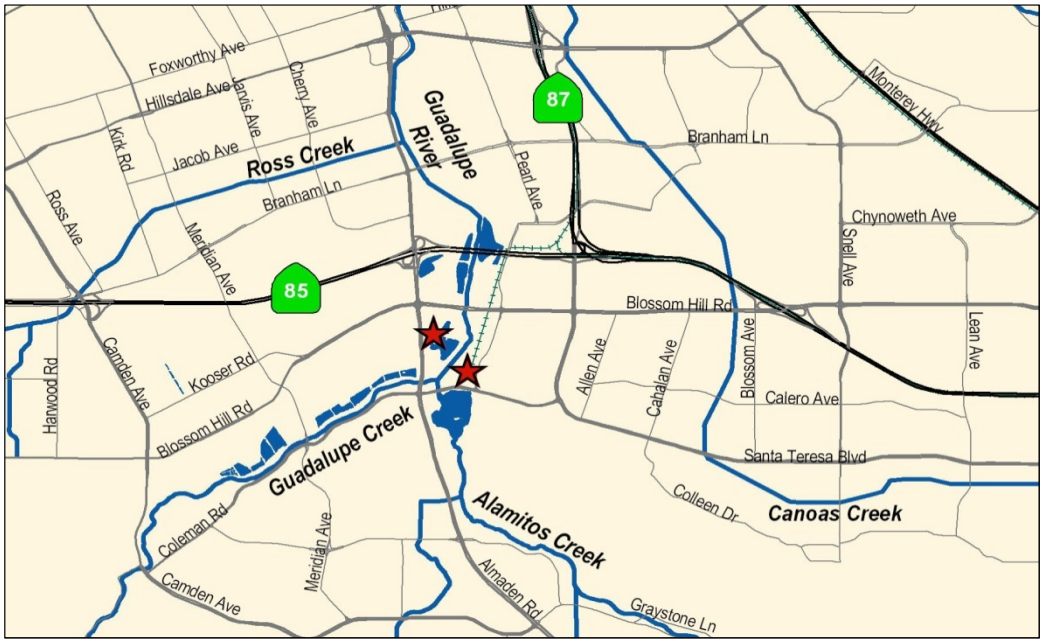
Project	**Almaden and Winfield Campus, Small Capital Improvements**
Program	Buildings and Grounds
Priority No.	73
Project No.	60204016
District Contact	Melanie Richardson mrichardson@valleywater.org

Workers perform asphalt maintenance by putting an overlay on the existing parking lot in front of the District's Administration Building.

PROJECT DESCRIPTION

This project reserves funding for capital maintenance and replacement of buildings, grounds, and facilities on the Almaden and Winfield campus, to provide a healthy and safe environment for staff and visitors.

PROJECT LOCATION



★ Project Location

SCHEDULE & STATUS

Improvements will be managed on an as-needed basis throughout the year.

Phase	Cost
Plan	n/a
Design	n/a
Construct	n/a
Closeout	n/a
	n/a

FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22

EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY11	FY12	FY13	FY14	FY15	FY16	FY17	Future	
60204016-Almaden and Winfield Campus, Small Capital Improvements	n/a	2,048	2,060	2,000	2,000	2,000	2,000	10,000	22,108
with inflation	n/a	2,048	2,060	2,122	2,185	2,251	2,319	12,679	25,664

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY11	FY12		FY13	FY14	FY15	FY16	FY17	Future	
60204016-Almaden and Winfield Campus, Small Capital Improvements	n/a	2,048	0	2,060	2,122	2,185	2,251	2,319	12,679	25,664

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD General Fund	25,664
Other Funding Source	0
Total	25,664

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs. The purpose of these maintenance projects is to avoid unnecessary financial impact caused by building shut-down and work stoppage.

USEFUL LIFE: Not Available

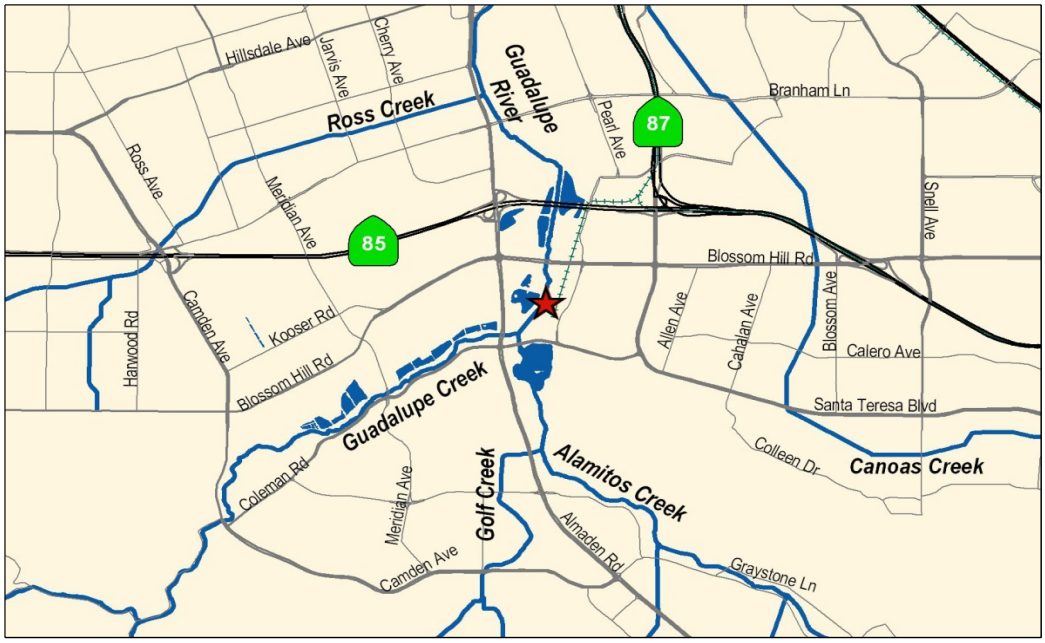
Project	**Winfield Capital Improvements**
Program	Buildings and Grounds
Priority No.	70
Project No.	60204021
District Contact	Katherine Oven koven@valleywater.org

A view of the District's Vegetation Management building on Winfield Blvd.

PROJECT DESCRIPTION

This project is to repair, maintain and improve the Winfield Warehouse and Winfield Vegetation Buildings, to provide a healthy and safe environment for staff and visitors. This includes improving restroom and shower facilities, enclosing the open section of the warehouse and providing a safe and fully functioning Class IV workshop, seismic upgrades and a new roof.

PROJECT LOCATION

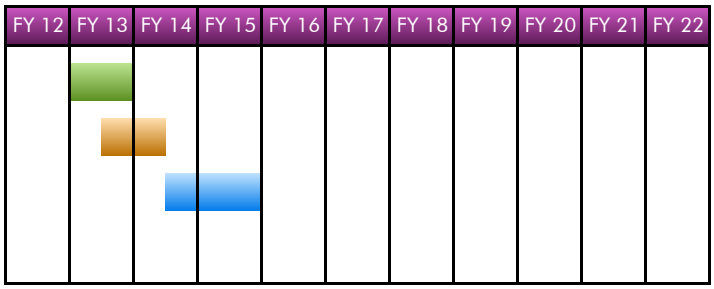


★ Project Location

SCHEDULE & STATUS

July 2012 to June 2015

Phase	Cost
Plan	518
Design	1,625
Construct	7,475
Closeout	-
	9,618



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY11	FY12	FY13	FY14	FY15	FY16	FY17	Future	
60204021-Winfield Capital Improvements	0	0	1,506	7,512	600	0	0	0	9,618
with inflation	0	0	1,506	7,969	656	0	0	0	10,131

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY11	FY12		FY13	FY14	FY15	FY16	FY17	Future	
60204021-Winfield Capital Improvements	0	0	0	1,506	7,969	656	0	0	0	10,131

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	10,131
Other Funding Source	0
Total	10,131

OPERATING COST IMPACTS

The completion of this project is not anticipated to increase or decrease annual operating costs. The purpose of these maintenance projects is to avoid unnecessary financial impact caused by building shut-down and work stoppage.

USEFUL LIFE: Not Available

Information Technology Capital Improvements

INFORMATION TECHNOLOGY OVERVIEW

The District manages a sophisticated information technology system to ensure the District's intellectual property, information, and files are protected from loss or significant damage. In 2001, the District completed the Information System Master Plan (ISMP). Significant progress has been made toward meeting the goals and objectives of the ISMP. The District administers an asset management program for its existing information technology system. The program includes a schedule for maintenance and rehabilitation to ensure that each system functions as intended over its useful life."

Major Capital Improvements Identified in the CIP

- Water Resources Information System
- Microwave Telecommunications System Upgrade
- Radio Repeater System Infill

PRIORITY PROCESS AND FINANCIAL ANALYSIS

A rigorous priority setting process was conducted to rate the information technology projects against other types of capital improvements. The priority criteria used are included in Appendix A.

Financial analysis of the following funding sources for information technology capital improvements was conducted to determine if there are limitations to funding all the planned capital projects.

- Watershed and Stream Stewardship Fund
- General Fund
- Water Enterprise Fund

Results of this year's prioritization process and financial analysis are summarized in Appendix B. Due to financial constraints in both the Water Utility Enterprise Fund and the Watershed Stream Stewardship Fund the proposed Business Collaboration Platform project will not be funded in FY 2012/13.

Information Technology Capital Improvements

The following table is a project funding schedule for information technology capital improvements resulting from this year's priority process and financial analysis. Detailed information for each project can be found in this document on the following pages in the order presented in this table. The chart also identifies partially funded projects and estimated unspent appropriation from FY 2011/12.

Information Technology Capital Improvements ($K)

Project Number	PROJECT NAME	Through FY11	FY12	FY12 Unspent	FY13	FY14	FY15	FY16	FY17	FY18-22	TOTAL
60274057	ISMP Water Resource Information System	3,279	-	18	-	-	-	-	-	-	3,279
94084006	Microwave Telecommunications System	4,441	-	20	1	-	-	-	-	-	4,442
00024005	Radio Repeater System Infill	643	-	632	-	320	-	-	-	-	963
	TOTAL	8,363	-	670	1	320	-	-	-	-	8,684

FY 2011/12 Funds to be reappropriated

The following table shows funding requirements from each funding source for information technology capital improvements.

Information Technology – Funding Sources ($K)

Project Number	PROJECT NAME	Through FY11	FY12	FY12 Unspent	FY13	FY14	FY15	FY16	FY17	FY18-22	TOTAL
	Water Enterprise Fund	8,022	-	335	1	150	-	-	-	-	8,174
	Watershed Stream Stewardship Fund	341	-	335	-	170	-	-	-	-	510
	TOTAL	8,363	-	670	1	320	-	-	-	-	8,684

FY 2011/12 Funds to be reappropriated

Project	**ISMP Water Resource Information System**
Program	Information Technology
Priority No.	50
Project No.	60274057
District Contact	Charles Wang cwang@valleywater.org

No Picture Available

PROJECT DESCRIPTION

This project develops and implements a new Water Resource Information System (WRIS), as defined in the Information Systems Master Plan (ISMP), to accomplish the following objectives:

- Develop a new WRIS that uses current technology and can be adequately supported by the vendor and the District's Information Management Division.
- Provide user interface that is easy to use and streamlines daily tasks.

PROJECT LOCATION

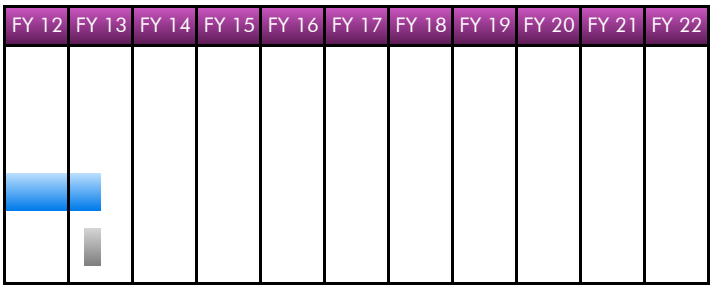
No map is provided for this project.

SCHEDULE & STATUS

August 2004 to December 2012

Planning phase is complete.
Design phase is complete.

Phase	Cost
Plan	316
Design	774
Construct	2,176
Closeout	5
	3,271



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY11	FY12	FY13	FY14	FY15	FY16	FY17	Future	
60274057-ISMP Water Resource Information System	3,146	115	10	0	0	0	0	0	3,271
with inflation	3,146	115	10	0	0	0	0	0	3,271

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY11	FY12		FY13	FY14	FY15	FY16	FY17	Future	
60274057-ISMP Water Resource Information System	3,279	0	18	0	0	0	0	0	0	3,279

Adjusted Budget includes adopted budget plus approved budget adjustments. Approved funding exceeds planned expenditures by $8,000. Remaining funds will be returned to reserves at the end of the project.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	3,279
Other Funding Source	0
Total	3,279

OPERATING COST IMPACTS

The completion of this project is anticipated to increase operating costs by approximately $5,000 per year, beginning in FY 2013, for software maintenance costs.

USEFUL LIFE: 10 Years

Project	**Microwave Telecommunications System**
Program	Information Technology
Priority No.	30
Project No.	94084006
District Contact	Charles Wang cwang@valleywater.org

Microwave tower at the County Communications Center

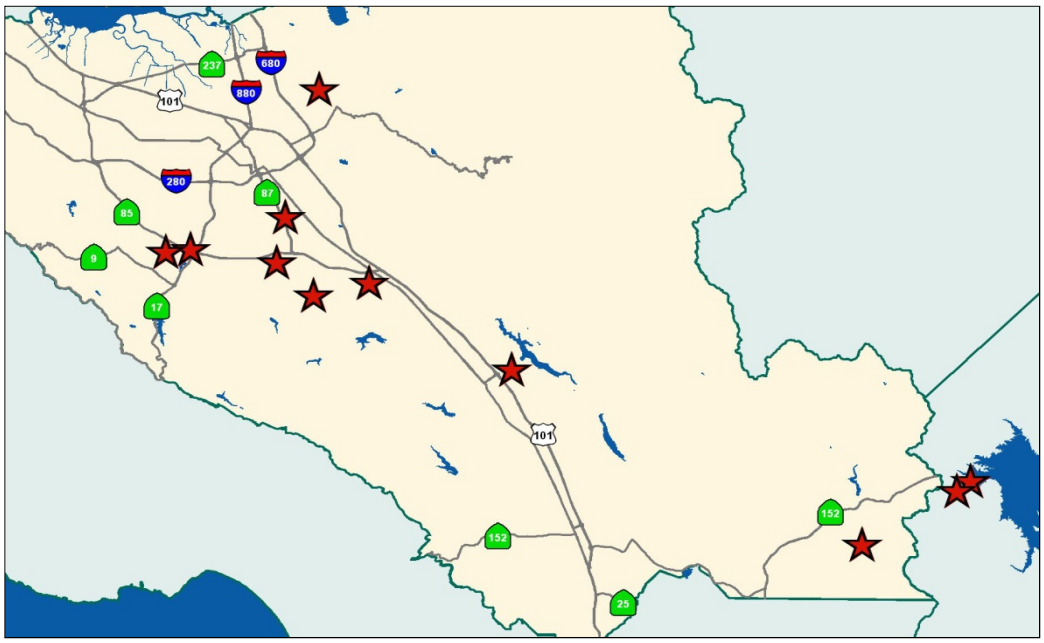
PROJECT DESCRIPTION

This project plans, designs, and installs microwave links at thirteen district sites to accomplish the following objectives:

- Expand the abilities of public agencies in Santa Clara County to communicate with each other quickly and securely during day-to-day operations, large-scale events, and regional disasters.
- Implement a countywide digital microwave network as the primary mechanism for real-time data delivery between network participant public safety interoperability applications.
- Provide reliable, high-speed, dedicated data links between mission critical facilities and the main district campus.

This project will be constructed in two phases. The first phase is all sites from Coyote Pump Station north. The second phase is the connection south to the City of Gilroy and to Pacheco Pump Station.

PROJECT LOCATION



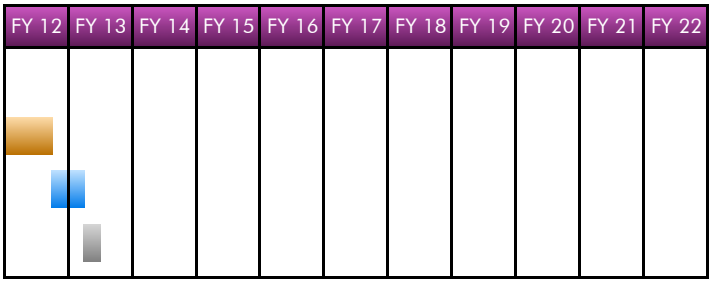
Project Location

SCHEDULE & STATUS

April 2009 to December 2012

Most planning tasks were done in a separate project. Installation is shown in the construction phase.

Phase	Cost
Plan	32
Design	319
Construct	4,070
Closeout	21
	4,442



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY11	FY12	FY13	FY14	FY15	FY16	FY17	Future	
94084006-Microwave Telecommunications System	2,331	2,090	21	0	0	0	0	0	4,442
with inflation	2,331	2,090	21	0	0	0	0	0	4,442

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY11	FY12		FY13	FY14	FY15	FY16	FY17	Future	
94084006-Microwave Telecommunications System	4,441	0	20	1	0	0	0	0	0	4,442

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Water Utility Enterprise Fund	4,270
San Benito County Water District	172
Total	4,442

OPERATING COST IMPACTS

Completion of this project is anticipated to increase annual operating costs by approximately $88,500 per year, beginning in FY 2014, for preventative and corrective maintenance of radio equipment, lease of antenna sites, and ongoing training.

USEFUL LIFE: 25 Years

Project	**Radio Repeater System Infill**
Program	Information Technology
Priority No.	44
Project No.	00024005
District Contact	Frank Fung ffung@valleywater.org

Radio tower at County Communications Center

PROJECT DESCRIPTION

The District's Radio system was originally constructed in 1986. This project studies the extent of repeater and receiver system infill and considers existing antenna sites that are available through the county, cities, and other public agencies to accomplish the following objectives:

- Expand the district's ability to communicate quickly and securely with Santa Clara County public agencies during day-to-day operations, large-scale events, and regional disasters.
- Increase reliability, availability, and performance of the county-wide radio system.
- Coordinate response from multiple agencies to an event by talking to users on common 700 MHz radio channels.
- Recommend new operational procedures to increase the level of emergency preparedness.

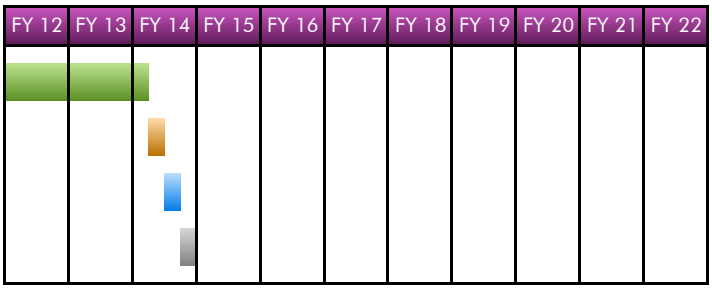
PROJECT LOCATION

Specific sites for this project have not been determined.

SCHEDULE & STATUS

July 2008 to June 2014

Phase	Cost
Plan	64
Design	40
Construct	780
Closeout	30
	914



EXPENDITURE SCHEDULE

(in thousands $)

	Actuals Thru	Planned Expenditures							Total
Project	FY11	FY12	FY13	FY14	FY15	FY16	FY17	Future	
00024005-Radio Repeater System Infill	11	0	93	810	0	0	0	0	914
with inflation	11	0	93	859	0	0	0	0	963

Actuals include project expenditures, and encumbrances.

FUNDING SCHEDULE

(in thousands $)

	Budget Thru	Adj. Budget	Est. Unspent	Planned Funding Requests						Total
Project	FY11	FY12		FY13	FY14	FY15	FY16	FY17	Future	
00024005-Radio Repeater System Infill	643	0	632	0	320	0	0	0	0	963

Adjusted Budget includes adopted budget plus approved budget adjustments.

FUNDING SOURCES

(in thousands $)

SCVWD Watershed Stream Stewardship Fund–53%	511
SCVWD Water Utility Enterprise Fund–47%	453
Total	963

OPERATING COST IMPACTS

Completion of this project is anticipated to increase annual operating costs by approximately $88,500 per year, beginning in FY 2015, for preventitive and corrective maintenance of radio equipment, lease of antenna sites, and ongoing training.

USEFUL LIFE: 15 Years

CIP FINANCIAL PLANNING

Board policy regarding financial planning and budgeting provides the foundation for CIP financial planning. The policy states:

Executive Limitation EL-4, "Financial planning for any fiscal year or the remaining part of any budget period shall not deviate materially from the Board's Ends priorities, risk fiscal jeopardy, or fail to be derived from a multiyear plan."

> Executive Limitation EL-4.1., "The CEO shall not fail to include credible projection of revenues and expenses, separation of capital and operational items, cash flow and disclosure of planning assumptions."
>
> Executive Limitation EL-4.2, "The CEO shall not plan the expenditure in any budget period of more funds than are conservatively projected to be received or appropriated from reserves in that period."

KEY REVENUES SOURCES

Water Charges

- Water charges include a ground water production charge, which is equivalent to the basic user charge, and is associated with the benefit of managing groundwater supplies. The groundwater charge is applied to water extracted from the groundwater basin in Zones W-2 and W-5. The basic user charge is applied to other types of water delivered by the District. There are two rates: one for agricultural water and one for municipal and industrial water.
- A treated water surcharge, which is associated with the benefit of receiving treated water, is levied in addition to the basic user charge on water delivered from the District's water treatment plants.

Property Tax

Santa Clara County allocates property tax revenue to the District from ad valorem taxes levied on land within the county.

Special Parcel Tax

The special parcel tax was approved by the voters in Santa Clara County in November 2000. This revenue source is restricted to financing the costs of the District's Clean, Safe Creeks and Natural Flood Protection Program.

Benefit Assessments

Benefit assessment revenue consists of levies approved by voters in 1986 and 1990 to support financing for flood control capital improvements. The current FY 2012/13 budget amount is approximately 1.25 times the duly authorized annual debt service requirements for each Watershed.

Capital Reimbursements

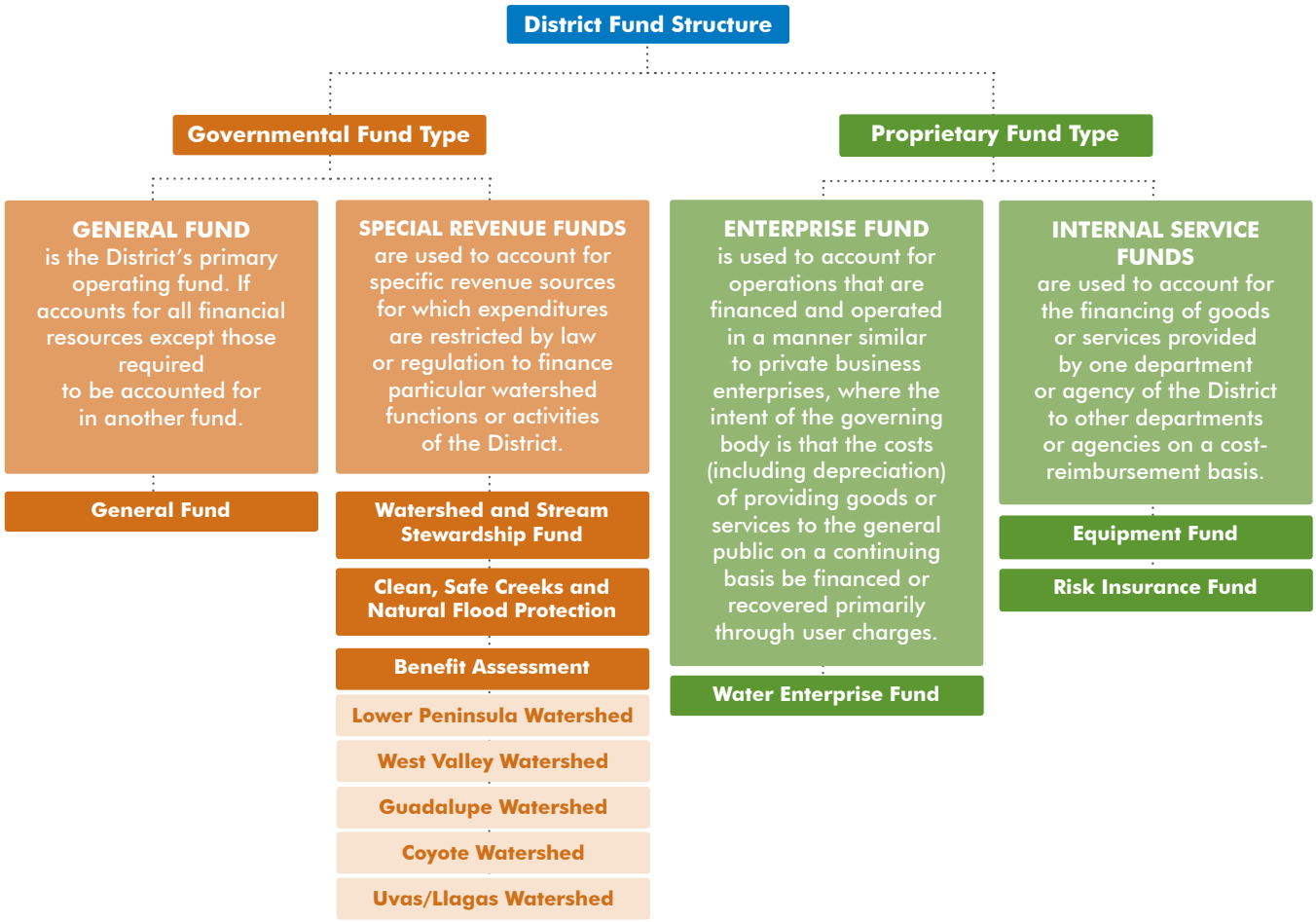
Capital reimbursement revenues are from local, state and federal partners for capital projects carried on cooperatively by the District and its partners. The District fronts the partners' shares of capital expenditures and receives reimbursements from the partners at a later time.

Interest

Interest is earned from the District's investment portfolio.

District Fund Structure

The District's revenue sources are organized into seven funds. Each fund has specific revenue sources according to their intended purposes, and each fund is an independent accounting entity with a self-balancing set of accounts comprised of its assets, liabilities, fund equity, revenue, and expenditures or expenses, as appropriate.



Revenue by Fund ($K)

FUND NAME	FY12 Budget	FY13	FY14	FY15	FY16	FY17	FY18	FY19	FY20	FY21	FY22
Water Enterprise	176,387	169,076	186,795	200,696	217,624	237,526	257,152	278,424	299,530	315,175	327,333
Watershed Stream Stewardship	58,913	71,594	60,222	52,889	50,093	50,494	51,284	52,356	52,292	52,687	53,039
Clean, Safe Creeks and Natural Flood Protection	37,412	50,582	48,604	50,770	55,660	12,064	5,575	1,404	5,090	2,641	340
Benefit Assessment	19,147	19,183	16,149	16,079	14,778	14,785	14,778	14,778	13,447	13,458	13,457
General	4,709	4,655	4,672	4,738	4,774	4,810	4,847	4,883	4,921	4,958	4,996
Internal Service	318	183	183	183	183	183	183	183	183	183	183
TOTAL	296,887	315,273	316,626	325,354	343,112	319,862	333,818	352,028	375,463	389,101	399,348

Note: Internal Service is the combination of the Equipment and Risk Funds

Revenue Projections

The District regularly updates the projected revenues based on the best information available.

- Revenues from water charges are estimated based on projections of water demand for residential, commercial and industrial, and agricultural consumption combined with rates per acre-foot. Rates are set at a level that will provide revenue needed to meet operating and capital needs.

- Revenues from property taxes, special parcel taxes, and benefit assessments are estimated based on projection of growth in assessed value and number of developed parcels in Santa Clara County.

- Interest earnings are estimated based on the projected average cash balances during the fiscal year and expected yield from the District's investment portfolio.

- Revenue from capital reimbursements partnerships are estimated based on the terms of agreements executed by the District and its partners.

Expenditure Projections

The District regularly updates the operation and capital expenditures based on the best information available.

Each capital project cost estimate includes the yearly expenditures through completion based on the project's scope and schedule. The expenditures are monitored regularly and updated when necessary, e.g. expenditures are updated when a project's scope changes. A management review process is enforced to ensure only justified expenditure changes are approved.

Operation cost projections for the next 10 years are updated annually and are based on assumptions derived from the District's strategic plans, including the impact of completed capital projects. Capital and operations expenditure projections are the foundation for the development of the District's budget.

Financial Analysis

The District regularly performs financial analysis to comply with the Board's Financial Planning/Budgeting Policy. The District uses sophisticated financial models to perform the analysis for each fund. The projected operation expenditures, capital expenditures, and revenues for the next ten years are incorporated into the financial models to analyze the health of each fund under various economic scenarios. This process assures that funds will be available when needed to implement the CIP.

The financial analysis generates alternatives for funding capital projects based on the available yearly revenues, from all sources, allocated to the capital program, and the debt financing capacity of each fund. The financial analysis establishes the parameters within which the capital project schedule is developed.

Debt Projections and Debt Ratios

Debt is managed at the District depending on the type of District business involved. Under the watershed business, the District has no current plans to issue additional debt which would require taxpayer approval. Debt service on outstanding debt is funded by benefit assessments levied on property owners in the county.

The water utility business on the other hand uses a combination of short-term and long-term debt financing in conjunction with pay-as-you-go financing to lessen impacts to the water rate, caused by fluctuations in capital funding needs. In the 1984 general election, Measure B was passed by the voters, which gave the District's water utility the authority to issue bonds on an "as required" basis. Debt service on outstanding debt is paid from water revenues. Bond covenants stipulate that the District must maintain a 1.25 debt coverage ratio on all parity bonds. The long-term financial analysis targets a debt coverage ratio of 2.0, which helps establish the parameters for capital planning that ensure bond covenants will be met.

The District currently enjoys credit ratings that are among the highest for a water-related governmental entity in the state of California, which helps keep interest costs borne by the District at a minimum.

Relationship between the Operating Budget and CIP

Whenever the District commits to capital improvements, there is a potential for associated long-range commitment of operating funds. For example, if 20-year bonds are issued to finance capital needs, then the operating funds will need to budget debt service payments for the next two decades. For this reason, it is important to evaluate capital commitments in the context of their long-range operating impact.

In addition to the long-range debt service payments, some capital projects affect future operating budgets either positively or negatively due to an increase or decrease in maintenance and operation costs. Such impacts vary widely from project to project and, are evaluated individually during the project development stage. The District is committing to a potential change in the operating budget when a capital project is approved.

The projected debt service payments and the positive or negative operating budget impacts are important factors considered in the District's financial analysis.

This chart identifies the operating budget impacts to each fund from projected debt service payments. The debt service payment in the Watershed Stream Stewardship Fund is a total of payments associated with each individual watershed.

Debt Payment Schedule ($K)

Fund	FY13	FY14	FY15	FY16	FY17
General Fund	773	773	631	625	536
Watershed Stream Stewardship Fund	15,757	13,272	13,215	12,164	12,169
Clean, Safe Creeks and Natural Flood Protection Fund	-	-	-	-	-
Water Utility Enterprise Fund	15,387	20,210	29,005	38,888	51,143
TOTAL	31,917	34,255	42,851	51,677	63,848

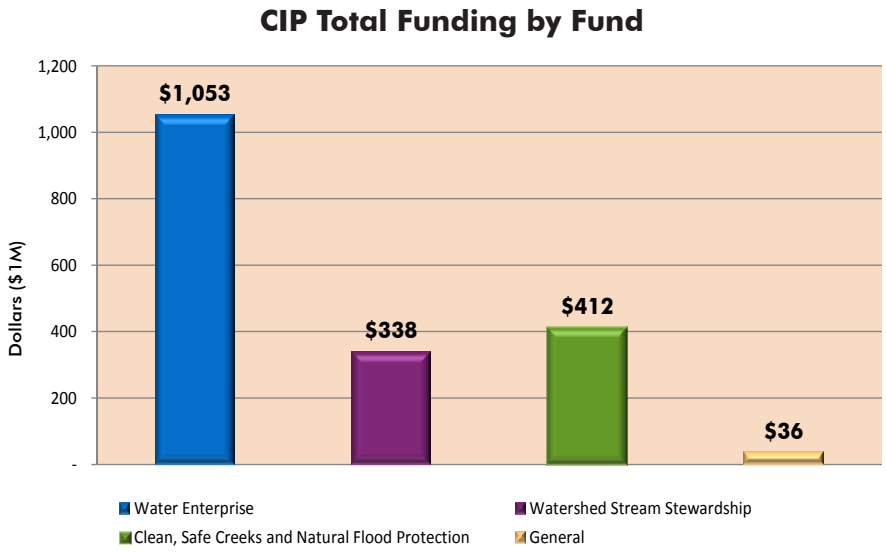
This chart identifies the net operating budget impacts to each fund resulting from annual maintenance and/or operating cost for newly completed capital projects. Additional information regarding operating impacts related to individual projects can be found on the project pages.

Estimated Operating Impacts ($K)

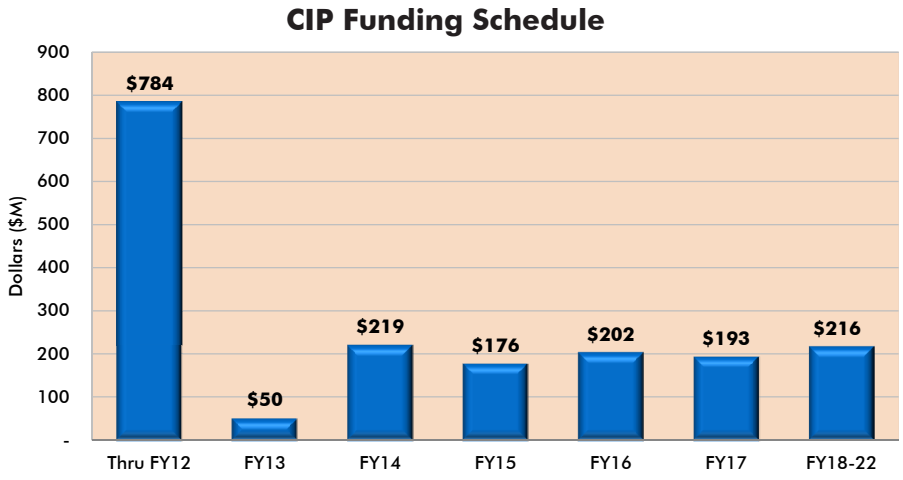
Fund	FY13	FY14	FY15	FY16	FY17	BEYOND
General Fund	-	-	-	-	-	-
Watershed Stream Stewardship Fund	450	500	577	592	592	626
Clean, Safe Creeks and Natural Flood Protection Fund	-	-	-	-	330	810
Water Utility Enterprise Fund	260	2,114	2,139	2,152	2,150	3,649
TOTAL	710	2,614	2,716	2,744	3,072	5,085

CIP FUNDING SUMMARY

Of the $1.838 billion in total District funding for current and future projects, the Board appropriated $784 million in prior years through June 30, 2012 (the end of Fiscal Year 2011/12). This year's CIP process identified additional funding needs of $1.055 billion to complete the projects in the CIP, with $50 million allocated in Fiscal Year 2012/13 and a total of $1.005 billion proposed for future years.



The needed $1.838 billion to implement the 72 projects as defined in the CIP are funded by four of the District's seven Funds.



The following chart shows the funding schedule for the $1.838 billion to implement the 72 projects.

CIP Project Funding Schedule for Water Enterprise Fund ($K)

PROJECT NAME	Through FY11	FY12	FY12 Unspent	FY13	FY14	FY15	FY16	FY17	FY18-22	TOTAL
Almaden Dam Improvements	2,103	250	-	802	1,126	12,394	201	-	-	16,876
Anderson Dam Seismic Retrofit	683	8,791	810	1,007	12,931	15,429	74,396	75,932	1,563	190,732
Calero and Guadalupe Dams Seismic Retrofits	-	-	-	2,170	3,457	4,080	12,175	16,342	81,010	119,234
Dam Safety Program Seismic Stability	6,669	2,816	1,935	613	259	-	-	-	-	10,357
Lenihan Dam Outlet Modifications	56,356	-	104	-	-	-	-	-	-	56,356
Pacheco Pumping Plant ASD Replacement	17,518	826	1	1,003	292	-	-	-	-	19,639
San Luis Reservoir Low Point Improvement - Planning	15,235	-	1,239	12	-	-	-	-	-	15,247
San Tomas Well Field	12,474	-	115	-	-	-	-	-	-	12,474
Small Capital Improvements, San Felipe Reach 1-3	n/a	2,403	-	1,639	3,986	2,249	2,386	2,530	15,135	30,328
5-Year Pipeline Rehabilitation	-	-	-	4,133	3,514	6,414	4,027	4,956	-	23,044
Alamitos Diversion Dam Improvements	2,962	-	2,125	-	-	-	-	-	505	3,467
Cathodic Protection of USBR-Owned Pipelines	-	-	-	-	504	478	3,950	-	-	4,932
Coyote Diversion Dam Improvements	709	-	389	-	-	-	-	679	1,295	2,683
IRP2 Additional Line Valves	-	-	-	-	-	710	878	6,861	-	8,449
IRP2 Backup Raw Water Control Center at Almaden	-	-	-	-	39	129	828	659	-	1,655
Kirk Diversion Dam & Fish Screen Improvements	3,196	-	1,691	-	405	-	-	-	-	3,601
Pacheco/Santa Clara Conduit Right of Way Acquisition	366	487	1	702	738	158	-	-	-	2,451
Penitencia Delivery Main/Force Main Seismic Retrofit	-	-	-	566	636	5,464	-	-	-	6,666
Pipeline Hydraulic Reliability Upgrades (Planning)	136	139	90	-	-	-	-	-	-	275
Small Capital Improvements, Raw Water Transmission	n/a	1,079	-	719	656	675	696	716	3,918	8,459
Small Capital Improvements, Treated Water Transmission	n/a	-	-	998	1,086	1,080	1,112	1,145	6,264	11,685
Stevens Creek Supplemental Water	438	-	377	-	-	-	119	1,313	33,993	35,863
IRP2 Seismic Study and Retrofit of WTP Ops Bldg	4,314	-	2,726	-	10,549	1,113	-	-	-	15,976
IRP2 Well Fields	79	124	-	115	408	1,257	1,126	6,376	12,358	21,843
PWTP Clearwell Recoating & Repair	1,003	405	776	186	2,833	33	-	-	-	4,460
PWTP Maintenance Building	5,697	-	616	-	-	-	-	-	-	5,697
PWTP Washwater Clarification Facility	-	-	-	-	-	-	524	621	6,783	7,928
PWTP Water Pumps Modification	2,745	-	2,434	-	386	368	119	-	-	3,618

FY 2011/12 Funds to be reappropriated

CIP Project Funding Schedule for Water Enterprise Fund ($K) (cont'd)

PROJECT NAME	Through FY11	FY12	FY12 Unspent	FY13	FY14	FY15	FY16	FY17	FY18-22	TOTAL
RWTP BL-1 Valve & Vault Replacement	-	-	-	-	-	244	1,145	115	-	1,504
RWTP FRP Primary Electrical System Improvement	5,428	142	35	264	-	-	-	-	-	5,834
RWTP FRP Residuals Management Modifications	3,154	426	328	311	16,306	973	146	-	-	21,316
RWTP Reliability Improvement	2,456	321	703	8,505	8,477	52,637	57,536	58,091	18,574	206,597
RWTP Standby Power System Upgrade	1,913	185	85	127	-	-	-	-	-	2,225
RWTP Treated Water Valvels Upgrade	978	99	290	395	3,156	546	28	-	-	5,202
Small Capital Improvements, Water Treatment	n/a	1,148	-	1,065	1,408	1,417	1,460	1,504	8,222	16,224
STWTP Incompatible Materials	7,851	1,559	-	3,014	359	-	-	-	-	12,783
Water Protection	7,599	131	5,524	-	-	-	-	-	-	7,730
WTP I/O Cards & Trunk Cable Upgrades	5,286	-	778	-	-	-	-	-	-	5,286
Silicon Valley Advanced Water Purification Center	44,330	18,425	841	1,461	318	-	-	-	-	64,534
South County Recycled Water Pipeline	13,410	715	5,457	953	1,411	1,453	7,879	811	-	26,632
Jacques Gulch Restoration	5,524	69	97	35	34	85	-	-	-	5,747
Dam Maintenance Plan Mitigation	3,000	45	3,025	-	184	-	-	-	-	3,229
FAHCE Stevens Creek Fish Passage Enhancement - 90%	765	-	-	-	-	-	2,538	5,195	4,140	12,638
Ogier Ponds Separation from Coyote Creek	-	-	-	-	-	-	-	-	2,990	2,990
ISMP Water Resource Information System	3,279	-	18	-	-	-	-	-	-	3,279
Microwave Telecommunications System	4,441	-	20	1	-	-	-	-	-	4,442
Radio Repeater System Infill - 47%	302	-	297	-	150	-	-	-	-	453
TOTAL	242,399	40,585	32,927	30,796	75,608	109,386	173,269	183,846	196,750	1,052,639

FY 2011/12 Funds to be reappropriated

Project Funding Schedule for Watershed and Stream Stewardship Fund ($K)

PROJECT NAME	Through FY11	FY12	FY12 Unspent	FY13	FY14	FY15	FY16	FY17	FY18-22	TOTAL
Permanente Creek, SF Bay to Foothill Expressway	17,361	-	-	10	-	-	-	-	-	17,371
San Francisquito Creek, SF Bay thru Searsville Dam, LP	4,918	-	1,010	-	-	-	-	-	-	4,918
San Francisquito Creek, Early Implementation, LP	1,697	-	151	-	-	-	-	-	-	1,697
Calabazas Creek, UPRR Bridge Construction	1,760	-	832	-	-	-	-	-	-	1,760
Guadalupe River–Downtown, I-880 to I-280	105,446	371	2,067	-	-	-	-	-	-	105,817
Berryessa Creek, Lower Penitencia Ck to Calaveras Blvd	36,716	2,236	-	1,535	484	262	10,056	713	947	52,949
Lake Cunningham Improvements	101	1,536	-	552	6,518	-	-	-	-	8,707
Lower Penitencia Ck Capacity Restoration, Berryessa to Coyote Cks.	156	550	-	581	5,726	113	60	46	24	7,256
Lower Silver Creek, I-680 to Cunningham (Reach 4-6)	49,472	15,607	71	634	106	110	168	-	-	66,097
Upper Penitencia Creek, Coyote Creek to Dorel Drive	15,889	1,545	1,838	-	116	-	-	-	-	17,550
Llagas Creek–Lower, Capacity Restoration, Hwy 152 to Pajaro River	2,143	1,323	414	152	578	1,044	2,054	319	-	7,613
San Francisco Bay Shoreline - Planning	11,659	584	498	-	-	-	-	-	-	12,243
CSC Soap Lake Floodplain Property Acquisition - $93	-	-	-	46	-	-	-	-	-	46
SMP Mitigation, Stream and Watershed Land Preservation	8,633	-	490	-	-	-	-	-	-	8,633
Alviso Slough Restoration	3,782	1,528	74	605	10,316	-	-	-	-	16,231
FAHCE Stevens Creek Fish Passage Enhancement - 10%	85	-	-	-	-	-	282	577	460	1,404
Gold Street Educational Center	2,283	363	-	15	33	-	-	-	-	2,694
Regnart Creek Stream Stabilization, Bubb to Stelling Rds.	-	-	-	-	523	403	1,600	-	-	2,526
Thompson Creek Stream Stabilization, Quimby to Aborn Rds.	2,256	-	2,024	-	-	-	-	-	-	2,256
Radio Repeater System Infill - 53%	341	-	335	-	170	-	-	-	-	510
TOTAL	264,698	25,643	9,804	4,130	24,570	1,932	14,220	1,655	1,431	338,279

FY 2011/12 Funds to be reappropriated

Project Funding Schedule for Clean Safe Creeks and Natural Flood Protection Fund ($K)

PROJECT NAME	Through FY11	FY12	FY12 Unspent	FY13	FY14	FY15	FY16	FY17	FY18-22	TOTAL
Permanente Creek, SF Bay to Foothill Expressway	16,126	915	10,350	-	20,922	874	315	-	-	39,152
San Francisquito Creek, SF Bay thru Searsville Dam, CSC	-	1,254	-	2,675	3,133	-	-	-	-	7,062
San Francisquito Creek, Early Implementation, CSC	-	1,270	30	918	1,379	-	-	-	-	3,567
Calabazas Creek, Miller Avenue to Wardell Road	12,075	-	1,366	-	-	-	-	-	-	12,075
Sunnyvale East and West Channels	8,014	3,829	1,376	2,411	44,325	37,868	56	-	-	96,503
Guadalupe River–Upper, I-280 to Blossom Hill Road	101,177	11,005	15,182	-	-	4,303	7,490	4,631	5,008	133,614
Berryessa Creek, Calaveras Boulevard to Interstate 680	11,918	107	4,302	2,565	15,020	10,111	157	-	-	39,878
Coyote Creek, Montague Expressway to Interstate 280	11,878	3,380	2	738	15,226	3,060	377	-	-	34,659
Llagas Creek–Upper, Buena Vista Road to Wright Avenue	20,467	4,073	1,069	1,265	8,594	5,654	3,742	232	-	44,027
CSC Soap Lake Floodplain Property Acquisition - $250	296	47	-	-	-	-	-	-	-	343
Lake Almaden, Guadalupe Rv, Los Alamitos Ck Restoration	-	316	177	499	-	56	-	-	-	871
TOTAL	181,951	26,196	33,854	11,071	108,599	61,926	12,137	4,863	5,008	411,751

FY 2011/12 Funds to be reappropriated

Project Funding Schedule for General Fund ($K)

PROJECT NAME	Through FY11	FY12	FY12 Unspent	FY13	FY14	FY15	FY16	FY17	FY18-22	TOTAL
Almaden and Winfield Campus, Small Capital Improvements	n/a	2,048	-	2,060	2,122	2,185	2,251	2,319	12,680	25,665
Winfield Capital Improvements	-	-	-	1,506	7,969	656	-	-	-	10,131
TOTAL	-	2,048	-	3,566	10,091	2,841	2,251	2,319	12,680	35,796

FY 2011/12 Funds to be reappropriated

CIP Funding Schedule Summary for All Funds ($K)

FUND NAME	Through FY11	FY12	FY12 Unspent	FY13	FY14	FY15	FY16	FY17	FY18-22	TOTAL
Water Enterprise	242,399	40,585	32,927	30,796	75,608	109,386	173,269	183,846	196,750	1,052,639
Watershed Stream Stewardship	264,698	25,643	9,804	4,130	24,570	1,932	14,220	1,655	1,431	338,279
Clean, Safe Creeks and Natural Flood Protection	181,951	26,196	33,854	11,071	108,599	61,926	12,137	4,863	5,008	411,751
General	-	2,048	0	3,566	10,091	2,841	2,251	2,319	12,680	35,796
TOTAL	689,048	94,472	76,585	49,563	218,868	176,085	201,877	192,683	215,869	1,838,465

FY 2011/12 Funds to be reappropriated

WATER SUPPLY CAPITAL PROJECTS

Priority Ranking Criteria

PRIORITY SCORE = **0**

Project Name Here

RAW SCORE = 0

PRIMARY OBJECTIVE (75%)

Water Supply (E 2) Impact = ; Probability = 0.00

A ☐ Project maintains existing water utility infrastructure or is required to meet the current and future water supply demand, comply with water quality standards or meet other regulatory requirements. **(H+, H-, M+, M-, L)**

B ☐ Project increases operation flexibility, improves maintenance capabilities, adds efficiency, or improves post-disaster reliability of water utility infrastructure [Example: improving the systematic reliability of water utility infrastructure to continually perform during and after a devastating event; improving the systematic flexibility of water utility infrastructure to utilize various source water; or add redundancy so infrastructure can be taken off-line for maintenance]. **(H, M, L)**

C ☐ Timing of when project is needed to meet water supply demands, water quality standards, or other regulations. **(I = Immediately (0-3 yrs.); S = Short-term (3-5 yrs.); L = Long-term (5+ yrs.))**

SOCIAL FACTORS (7.5%)

Social Factor - Check if applicable 0.00

☐ Promotes Emergency Recovery

Positive Interaction (E 4) - Check all that apply

☐ With the Community ☐ With other agencies

ENVIRONMENTAL FACTORS (7.5%)

Water Quality (E 3.2) - Check if applicable 0.00

☐ Promotes drinking water quality

Natural Resources Sustainability (E 3.2) - Check all that apply

☐ Promotes water use efficiency ☐ Promotes energy efficiency or incorporates energy efficient features

☐ Promotes stream management

ECONOMIC FACTORS (10%)

Lifecycle costs are minimized - Check One 0.00

☐ Annual cost savings of more than $250,000

☐ Annual cost savings of $50,000 to $250,000

☐ Annual cost savings of less than $50,000 (reference ½ PY)

Funding Available from Other Agencies - Check One

☐ Over 50% of project costs available from other agencies

☐ 26% to 50% of project costs available from other agencies

☐ Up to 25% of project costs available from other agencies

FLOOD PROTECTION PROJECTS

Priority Ranking Criteria

PRIORITY SCORE = 0

Project Name Here

RAW SCORE = 0

PRIMARY OBJECTIVE (60%)

Flood Protection (E 3) Impact = ; Probability = 0.00

A ☐ Project restores existing watershed infrastructure to its intended level of flood protection.

B Project balances environmental quality and protection from flooding in a cost effective manner.

Average annual flood damages (13.5 pts.)		$K
Size of developed area (2 pts.)		Acres
Upstream and downstream improvements (1.3 pts.)		Y/N
Rehabilitated reach (1.8 pts.)		Y/N
Proposed development (1 pt.)		Acres
Downstream reach (1.3 pts.)		Y/N
Maintenance cost (1.4 pts.)		per Mile
Multipurpose use (1.5 pts.)		Miles
Flood insurance costs (1.6 pts.)		$
Historical flood areas (1.6 pts.)		Acres

SOCIAL FACTORS (10%)

Positive Interaction (E 4) - Check all that apply 0.00

☐ With the Community ☐ With other agencies

Good Neighbor (E 4) - Check all that apply

☐ Graffiti removal or Prevention Features

☐ Trash removal features (vortex weirs)

☐ Improves esthetics of project location

ENVIRONMENTAL FACTORS (15%)

Ecological Function (E 3.2) - Check all that apply 0.00

☐ Fish Barrier Removal / Structural improvement to fish habitat ☐ Upland Habitat Protection/Preservation

☐ Riparian Habitat (planting, setback or protect in place) ☐ Wetland Habitat Protection/Preservation

☐ SRA Plantings or Improved water temperature ☐ Hardscape Reduction

Water Quality (E 3.2) - Check all that apply

☐ Storm Water Treatment ☐ Provides opportunity for recharge

☐ TMDL Improvements

Trails & Open Space (E3.3) - Check all that apply

☐ Trail friendly features ☐ Open Space Protection / Preservation

☐ Provides/Improves Bicycle Commute Route

ECONOMIC FACTORS (15%)

Funding Available from Other Agencies - Check One 0.00

☐ Over 50% of project costs available from other agencies

☐ 26% to 50% of project costs available from other agencies

☐ Up to 25% of project costs available from other agencies

WATER RESOURCES STEWARDSHIP PROJECTS

Priority Ranking Criteria for Commitments and Environmental Enhancement Projects

PRIORITY SCORE = 0

Project Name Here

RAW SCORE = 0

PROJECT OBJECTIVES	**Water Resources Stewardship (E 4)** - Mark One	0.00
	Proposed project supports watershed stewardship and includes 1 of 5 objectives: 1 - creation or restoration of tidal or riparian habitat 2 - improvement of endangered species habitat 3 - fish barrier removal/fish ladder installation 4 - removal of invasive species 5 - planting of native species.	
	☐ **HIGH** - Project supports more than 1 identified objective	15
	☐ **MEDIUM** - Project supports 1 of 5 identified objectives	10
	☐ **LOW** - Project does not support 1 of 5 identified objectives	7
ENVIRONMENTAL DESIRABILITY	Proposed project is appropriate for the area/habitat in which it is planned (based on some evidence provided). - Mark One	0.00
	☐ **HIGH** - Project demonstrates connectivity to adjacent habitats and bsaseline information is available to support selection of project location.	15
	☐ **MEDIUM** -	10
	☐ **LOW** - Project is a stand-alone project with no relation to adjacent habitat or baseline evidence that supports appropriateness of location for project.	5
CRITICAL NEED	Project fulfills a critical need as described by existing documents, plans, and reports on watershed stewardship in Santa Clara County. - Mark One	0.00
	☐ **HIGH** - Project fulfills a critical need	15
	☐ **MEDIUM** -	10
	☐ **LOW** - Project does not fulfill a critical need	5
GEOGRAPHIC DISTRIBUTION	Project provides planning for enhancements in an area where a lack of environmental enhancements can be demonstrated. - Mark One	0.00
	☐ **HIGH** - Project demonstrates that the project location is in need of enhancements due to lack of existing enhancements.	15
	☐ **MEDIUM** -	10
	☐ **LOW** - Project does not demonstrates that the project location is in need of enhancements due to lack of existing enhancements.	5
LIKELIHOOD OF PROJECT SUCCESS	Maintenance and monitoring copmponent identified for environmental enhancement activity. - Mark One	0.00
	☐ **HIGH** - Project includes specific details for the maintenance and monitoring component of the environmental enhancement activity.	15
	☐ **MEDIUM** - Project includes recognition that a maintenance and monitoring component is necessary for successful completion of the environmental enhancement activity.	10
	☐ **LOW** - Project does not include a maintenance and monitoring component for the environmental enhancement activitie(s)	5
COST EFFECTIVENESS	Cost to the District as a percentage of the total estimated enhancement planning project cost. - Mark One	0.00
	☐ **HIGH** - Project provides > 50% cost share (i.e., less District funding required)	15
	☐ **MEDIUM** - Project provides between 25% and 50% cost share	7
	☐ **LOW** - Project provides at least 25% cost share (i.e., more District funding required)	5
COMMUNITY INVOLVEMENT	Proposed project includes plans for outreach to the community. - Mark One	0.00
	☐ **HIGH** - Project includes a community outreach component	10
	☐ **MEDIUM** -	7
	☐ **LOW** - Project does not include a community outreach component.	5

WATER RESOURCES STEWARDSHIP PROJECTS

Priority Ranking Criteria for Stewardship Projects

PRIORITY SCORE = 0

Project Name Here

RAW SCORE = 0

PRIMARY OBJECTIVE (60%)

Stewardship Projects Impact = ; Probability = 0.00

A ☐ Project restores a previously constructed environmental enhancement so that it can continue to provide the benefits for which it was created.

B ☐ Project creates Stewardship features to achieve stewardship commitments.

C ☐ Stewardship activities beyond the current commitment.

SOCIAL FACTORS (10%)

Positive Interaction (E 4) - Check all that apply 0.00

☐ With the Community

☐ With other agencies

Good Neighbor (E 4) - Check all that apply

☐ Graffiti removal or Prevention Features

☐ Trash removal features (vortex weirs)

☐ Improves esthetics of project location

ENVIRONMENTAL FACTORS (15%)

Ecological Function (E 3.2) - Check all that apply 0.00

☐ Fish Barrier Removal / Structural improvement to fish habitat

☐ Riparian Habitat (planting, setback or protect in place)

☐ SRA Plantings or Improved water temperature

☐ Upland Habitat Protection/Preservation

☐ Wetland Habitat Protection/Preservation

☐ Hardscape Reduction

Physical Stream Function (E 3.2) - Check all that apply

☐ Holistic Watershed Approach

☐ Geomorphologic Design Elements

☐ Erosion Control

☐ Sediment Source Reduction

Water Quality (E 3.2) - Check all that apply

☐ Storm Water Treatment (pervious pavement, green roofs, etc.)

☐ TMDL Improvements

☐ Hazardous Material Removal (Asbestos, Lead, Hydrocarbons, etc.)

Trails & Open Space (E3.3) - Check all that apply

☐ Trail friendly features

☐ Provides/Improves Bicycle Commute Route

☐ Open Space Protection / Preservation

ECONOMIC FACTORS (15%)

Lifecycle costs are minimized - Check One 0.00

☐ Annual cost savings of more than $250,000

☐ Annual cost savings of $50,000 to $250,000

☐ Annual cost savings of less than $50,000 (reference ½ PY)

Funding Available from Other Agencies - Check One

☐ Over 50% of project costs available from other agencies

☐ 26% to 50% of project costs available from other agencies

☐ Up to 25% of project costs available from other agencies

BUILDING & GROUNDS PROJECTS

Priority Ranking Criteria

PRIORITY SCORE = 0

Project Name Here

RAW SCORE = 0

PRIMARY OBJECTIVE (60%)

Buildings and Grounds (EL 3.4) Impact = ; Probability = 0.00

A ☐ Project maintains or replaces existing building infrastructure to provide continuous housing of existing functions and/or to comply with employer safety standards.

B ☐ Project enhances building infrastructure to address treatment of staff issues.

C ☐ Project positions the District to meet projected future space needs.

CLEANER OBJECTIVE (10%)

Positive Interaction (E 4) - Check all that apply 0.00

☐ With the Community

☐ With other agencies

Good Neighbor (E 4) - Check all that apply

☐ Graffiti removal or Prevention Features

☐ Trash removal features (vortex weirs)

☐ Improves esthetics of project location

GREENER OBJECTIVE (15%)

Natural Resources Sustainability (E 3.2) - Check all that apply 0.00

☐ Air Quality & Visibility Improvement

☐ Energy Efficient Features (Lighting, HVAC, maximize daylight use, etc.)

☐ Renewable Energy Use

☐ Water Efficient Features: Plumbing fixtures, Landscaping, etc.

☐ Recycled Water, rain water or gray water utilized

☐ Construction Site Waste Management

☐ Recycle/Re-use Solid Waste

☐ Reduce Solid Waste Production

☐ Use of Recycled or Alternative Building Materials

Trails & Open Space (E3.3) - Check all that apply

☐ Trail friendly features

☐ Provides/Improves Bicycle Commute Route

☐ Open Space Protection / Preservation

LEANER OBJECTIVE (15%)

Lifecycle costs are minimized - Check One 0.00

☐ Annual cost savings of more than $250,000

☐ Annual cost savings of $50,000 to $250,000

☐ Annual cost savings of less than $50,000 (reference ½ PY)

Funding Available from Other Agencies - Check One

☐ Over 50% of project costs available from other agencies

☐ 26% to 50% of project costs available from other agencies

☐ Up to 25% of project costs available from other agencies

INFORMATION TECHNOLOGY PROJECTS

Priority Ranking Criteria

PRIORITY SCORE = 0

Project Name Here

SCORE = 0

PRIMARY OBJECTIVE (60%)

Information Technology (EL 7.5) Impact = ; Probability = 0.00

A ☐ Project maintains existing mission critical software systems and/or IT infrastructure to improve reliability for business continuity.

B ☐ Project enhances mission critical software systems and/or IT infrastructure to improve user functionality.

C ☐ Project enhances mission critical software systems and/or IT infrastructure to meet projected future needs.

SOCIAL FACTORS (10%)

Positive Interaction (E 4) - Check all that apply 0.00

☐ With the Community

☐ With other agencies

Good Neighbor (E 4) - Check all that apply

☐ Graffiti removal or Prevention Features

☐ Trash removal features (vortex weirs)

☐ Improves esthetics of project location

ENVIRONMENTAL FACTORS (15%)

Natural Resources Sustainability (E 3.2) - Check all that apply 0.00

☐ Air Quality & Visibility Improvement

☐ Energy Efficient Features (Lighting, HVAC, maximize daylight use, etc.)

☐ Renewable Energy Use

☐ Water Efficient Features: Plumbing fixtures, Landscaping, etc.

☐ Recycled Water, rain water or gray water utilized

☐ Construction Site Waste Management

☐ Recycle/Re-use Solid Waste

☐ Reduce Solid Waste Production

☐ Use of Recycled or Alternative Building Materials

ECONOMIC FACTORS (15%)

Lifecycle costs are minimized - Check One 0.00

☐ Annual cost savings of more than $250,000

☐ Annual cost savings of $50,000 to $250,000

☐ Annual cost savings of less than $50,000 (reference ½ PY)

Funding Available from Other Agencies - Check One

☐ Over 50% of project costs available from other agencies

☐ 26% to 50% of project costs available from other agencies

☐ Up to 25% of project costs available from other agencies

Water Supply Capital Projects in Order of Priority

FUNDED

Priority	Name
100	Dam Safety Program Seismic Stability
97	Anderson Dam Seismic Retrofit
92	Calero and Guadalupe Dams Seismic Retrofits
90	PWTP Maintenance Building
87	RWTP Treated Water Valves Upgrade
87	RWTP FRP Primary Electrical System Improvement
87	RWTP FRP Residuals Management Modifications
84	Penitencia Delivery Main/Force Main Seismic Retrofit
80	Pacheco Pumping Plant ASD Replacement
75	PWTP Water Pumps Modification
72	Alamitos Diversion Dam Improvements
72	Coyote Diversion Dam Improvements
72	Kirk Diversion Dam & Fish Screen Improvements
72	Small Capital Improvements, Raw Water Transmission
71	Cathodic Protection of USBR-Owned Pipelines
70	IRP2 Seismic Study and Retrofit of WTP Ops Bldg
69	Stevens Creek Supplemental Water
68	PWTP Clearwell Recoating & Repair
68	WTP I/O Cards & Trunk Cable Upgrades
67	Small Capital Improvements, Water Treatment
66	Small Capital Improvements, San Felipe Reach 1-3
66	STWTP Incompatible Materials
65	Small Capital Improvements, Treated Water Transmission
64	Lenihan Dam Outlet Modifications
60	Pacheco/Santa Clara Conduit Right of Way Acquisition
58	RWTP BL-1 Valve & Vault Replacement
58	RWTP Standby Power System Upgrade
56	5-Year Pipeline Rehabilitation
53	San Luis Reservoir Low Point Improvement - Planning
49	PWTP Washwater Clarification Facility
46	RWTP Reliability Improvement
40	Almaden Dam Outlet Works Improvements
40	IRP2 Additional Line Valves
34	Water Protection
33	San Tomas Well Field
30	IRP2 Well Fields
27	IRP2 Backup Raw Water Control Center at Almaden

Water Supply Capital Projects in Order of Priority (cont'd)

FUNDED

Priority	Name
21	Pipeline Hydraulic Reliability Upgrades
17	Silicon Valley Advanced Water Purification Center
16	South County Recycled Water Pipeline

LOWER PRIORITY OR UNFUNDED FUTURE PROJECTS

100	Dam Seismic Stability at 4 Dams (Chesboro, Lexington, Stevens, & Uvas)
43	Church Avenue Diversion
24	RWTP Waste Stream Separation Modification
16	WTP Filter Backwash Aid
16	Recycled Water Masterplan - Long-Term Implementation
13	Coyote Pumping Plant ASD Replacement
7	Milpitas Pipeline Terminus Valve & Vault
7	Santa Clara Tunnel Leakage and Pacheco Conduit Dewater
5	Valve 906 Low-Flow Bypass

Flood Protection Capital Projects in Order of Priority

FUNDED

Priority	Name
94	Permanente Creek, SF Bay to Foothill Expressway
81	Llagas Creek–Lower, Capacity Restoration, Hwy 152 to Pajaro River
80	Sunnyvale East and West Channels
79	San Francisquito Creek, SF Bay thru Searsville Dam
77	Guadalupe River–Downtown, I-880 to I-280
77	Guadalupe River–Upper, I-280 to Blossom Hill Road
67	Berryessa Creek, Lower Penitencia Ck to Calaveras Blvd
66	Llagas Creek–Upper, Buena Vista Road to Wright Avenue
59	Coyote Creek, Montague Expressway to Interstate 280
58	Upper Penitencia Creek, Coyote Creek to Dorel Drive
56	Lower Silver Creek, I-680 to Cunningham (Reach 4-6)
54	Lake Cunningham Improvements
54	Lower Penitencia Ck Capacity Restoration, Berryessa to Coyote Cks.
53	Berryessa Creek, Calaveras Boulevard to Old Piedmont Road
42	Calabazas Creek, Miller Avenue to Wardell Road
32	San Francisco Bay Shoreline

LOWER PRIORITY OR UNFUNDED FUTURE PROJECTS

79	San Francisquito Creek, San Francisco Bay through Searsville Dam (Design & Construction)
61	Canoas Creek, Guadalupe River to Cottle Road
59	Coyote Creek, Montague Expressway to Interstate 280 (Construction)
58	Upper Penitencia Creek, Coyote Creek to Dorel Drive (Design & Construction)
55	Babb/Piedmont/Los Coches Creeks, Channel Rehabilitation
33	Calabazas Creek, Wardell to Comer Debris Basin
32	SF Bay Shoreline Early Implementation Design & Construct
31	Alamitos Creek, Guadalupe River to Almaden Dam
16	Coyote Creek Overflow Channel Restoration, Montague Expwy
12	Los Gatos Creek, Twin Brook Drive

Water Resources Stewardship Capital Projects in Order of Priority

FUNDED

Priority	Name
	Mitigation (All Mitigation projects are required per CEQA or other Regulation and therefore do not receive a score)
	Dam Maintenance Plan Mitigation
	SMP Mitigation, Stream and Watershed Land Preservation
	Environmental Commitment
85	Jacques Gulch Restoration
	Environmental Enhancement
55	CSC Soap Lake Floodplain Property Acquisition
35	Lk Almaden/Guad Riv/Alamitos Ck Restoration - Planning
	Stewardship
65	FAHCE Stevens Creek Fish Passage Enhancement
35	Ogier Ponds Separation from Coyote Creek
29	Regnart Creek Stream Stabilization, Bubb to Stelling Rds.
25	Thompson Creek Stream Stabilization, Quimby to Aborn Rds.
24	Alviso Slough Restoration
8	Gold Street Educational Center

FUTURE FUNDED PROJECTS (Funded in a year beyond the current 5-year window)

35	Coyote Creek Bypass

LOWER PRIORITY OR UNFUNDED FUTURE PROJECTS

77	Permanente Diversion Channel Restoration
74	Permanente Creek Riparian Channel Restoration
54	Comer Dam Removal Project
35	Lk Almaden/Guad Riv/Alamitos Ck Restoration - Design and Construction

Buildings and Grounds Capital Projects in Order of Priority

FUNDED

Priority	Name
73	Almaden and Winfield Campus, Small Capital Improvements
70	Winfield Capital Improvements

LOWER PRIORITY OR UNFUNDED FUTURE PROJECTS

70	Fleet Building Improvements
39	Almaden Campus Office Building

Information Technology Capital Projects in Order of Priority

FUNDED

50	ISMP Water Resource Information System
44	Radio Repeater System Infill
30	Microwave Telecommunications System

LOWER PRIORITY OR UNFUNDED FUTURE PROJECTS

55	Business Collaboration Platform

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Appendix C - District Partnership Summary

Partnership Reimbursements are funds that are reimbursed by the District's partners after the District advances the needed funds. The follwing table identifies capital projects that are funded cooperatively with the District's partners through reimbursements.

Partnership Reimbursement

Project Number	PROJECT NAME & PARTNER AGENCY	Through FY11	FY12	FY13	FY14	FY15	FY16	FY17	FY18-22	TOTAL
Current Projects										
26174041s	**Berryessa Creek, Calaveras Blvd to Interstate 680**									
	State Subventions						5,887	5,670	1,284	12,841
	Subtotal	**-**	**-**	**-**	**-**	**-**	**5,887**	**5,670**	**1,284**	**12,841**
92C40310	**Cathodic Protection of USBR-Owned Pipelines**									
	San Benito County Water District					35	67	324		426
	Subtotal	**-**	**-**	**-**	**-**	**35**	**67**	**324**	**-**	**426**
30154013s	**Guadalupe River–Downtown, I-880 to I-280**									
	State Subventions	27,080			1,378	485				28,943
	City of San Jose	1,654								1,654
	San Jose Redevelopment Agency	10,208								10,208
	Subtotal	**38,942**	**-**	**-**	**1,378**	**485**	**-**	**-**	**-**	**40,805**
26154001s	**Guadalupe River–Upper, I-280 to Blossom Hill Rd**									
	State Subventions	3,430	9,100	3,500	5,600	5,600	5,600	5,600	10,644	49,074
	City of San Jose	3,785								3,785
	Subtotal	**7,215**	**9,100**	**3,500**	**5,600**	**5,600**	**5,600**	**5,600**	**10,644**	**52,859**
91854002	**Jacques Gulch Restoration**									
	Santa Clara County	362								362
	Subtotal	**362**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**362**
50284010	**Llagas Creek-Lower, Capacity Restoration, Buena Vista Road to Pajaro River**									
	Department of Water Resources	120								120
	Subtotal	**120**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**120**
26174051s	**Llagas Creek–Upr, Buena Vista Rd to Wright Ave**									
	State Subventions	2,537			4,000	6,000	4,000			16,537
	City of Morgan Hill	560	1,000	1,000	780					3,340
	Subtotal	**3,097**	**1,000**	**1,000**	**4,780**	**6,000**	**4,000**	**-**	**-**	**19,877**
40264008s	**Lower Silver Ck, I-680 to Cunningham (R4-6)**									
	State Subventions			2,500		2,500				5,000
	Department of Water Resources			15,000	10,000					25,000
	Natural Resource Conservation Service - ARRA	3,938	11,272	5,000						20,210
	Subtotal	**3,938**	**11,272**	**22,500**	**10,000**	**2,500**	**-**	**-**	**-**	**50,210**
94084006	**Microwave Telecommunications System**									
	San Benito County Water District			172						172
	Subtotal	**-**	**-**	**172**	**-**	**-**	**-**	**-**	**-**	**172**
91954001	**Pacheco Pumping Plant ASD Replacement**									
	San Benito County Water District	1,673	1,814	264	228	56				4,035
	Subtotal	**1,673**	**1,814**	**264**	**228**	**56**	**-**	**-**	**-**	**4,035**
92144001	**Pacheco/Santa Clara Conduit Right of Way Acquisition**									
	San Benito County Water District			19						19
	Subtotal	**-**	**-**	**19**	**-**	**-**	**-**	**-**	**-**	**19**
91214007	**San Luis Reservoir Low Point Improvement**									
	Department of Water Resources	11,251	50	153						11,454
	U.S. Bureau of Reclamation	46								46
	Subtotal	**11,297**	**50**	**153**	**-**	**-**	**-**	**-**	**-**	**11,500**

Partnership Reimbursement (cont'd)

Project Number	PROJECT NAME & PARTNER AGENCY	Through FY11	FY12	FY13	FY14	FY15	FY16	FY17	FY18-22	TOTAL
91124001	**San Tomas Well Field**									
	Campbell Redevelopment Agency	4,929								4,929
	Subtotal	**4,929**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**4,929**
91184008	**Silicon Valley Advanced Water Purification Center**									
	City of San Jose	2,366	6,034	1,000						9,400
	Department of Water Resources - Prop 50		2,935							2,935
	U.S. Bureau of Reclamation - Federal				1,000	1,000	1,000	1,000		4,000
	U.S. Bureau of Reclamation - ARRA	1,667	6,458							8,125
	Subtotal	**4,033**	**15,427**	**1,000**	**1,000**	**1,000**	**1,000**	**1,000**	**-**	**24,460**
91214010	**Small Capital Improvements, San Felipe**									
	San Benito County Water District	393	242	219	358	238	253	268	1,602	3,573
	Subtotal	**393**	**242**	**219**	**358**	**238**	**253**	**268**	**1,602**	**3,573**
91094007s	**South County Recycled Water Pipeline**									
	South County Recycled Water Authority	708								708
	U.S. Bureau of Reclamation - ARRA		1,295							1,295
	U.S. Bureau of Reclamation - Federal				1,116					1,116
	Subtotal	**708**	**1,295**	**-**	**1,116**	**-**	**-**	**-**	**-**	**3,119**
	Current Projects Subtotal	**76,707**	**40,200**	**28,827**	**24,460**	**15,914**	**16,807**	**12,862**	**13,530**	**229,307**
Completed Projects										
91214008	**Pacheco Pumping Plant Regulating Tank Recoating**									
	San Benito County Water District	498	198							696
	Subtotal	**498**	**198**	**-**	**-**	**-**	**-**	**-**	**-**	**696**
91214009	**San Felipe Communications Cable Replacement**									
	San Benito County Water District	43	1							44
	Subtotal	**43**	**1**	**-**	**-**	**-**	**-**	**-**	**-**	**44**
	Completed Projects Subtotal	**541**	**199**	**0**	**0**	**0**	**0**	**0**	**0**	**740**
	GRAND TOTAL	**77,248**	**40,399**	**28,827**	**24,460**	**15,914**	**16,807**	**12,862**	**13,530**	**230,047**

Appendix C - District Partnership Summary

Partnership Funding is funds that are made available by the District's partners, when needed. The following table identifies capital projects that receive partnership funding. This may occur through either cost sharing agreements or as in-kind services.

Partnership Funding

Project Number	Project Name	Amount ($K)	Partnering Agency
26174041s	Berryessa Creek, Calaveras Boulevard to Interstate 680	45,200	U.S. Army Corps of Engineers
30154013s	Guadalupe River–Downtown, Interstate 880 to Interstate 280	170,500	U.S. Army Corps of Engineers (includes $12.5M ARRA Stimulus)
26154001s	Guadalupe River–Upper, Interstate 280 to Blossom Hill Road	136,700	U.S. Army Corps of Engineers
91854002	Jacques Gulch Restoration	4,000	County of Santa Clara
26174051s	Llagas Creek–Upper, Buena Vista Road to Wright Avenue	22,000	U.S. Army Corps of Engineers
00044026s	San Francisco Bay Shoreline	91,250	Primarily Corps, Coastal Conservancy, Fish & Wildlife, Wildlife Conservation
10284007s	San Francisquito Creek, SF Bay thru Searsville Dam	3,000	U.S. Army Corps of Engineers
10284007s	San Francisquito Creek, SF Bay thru Searsville Dam	1,500	County of San Mateo
62214001	Thompson Creek Stream Stabilization, Quimby to Aborn Rds.	4,415	U.S. Army Corps of Engineers
	TOTAL	$ 478,565	

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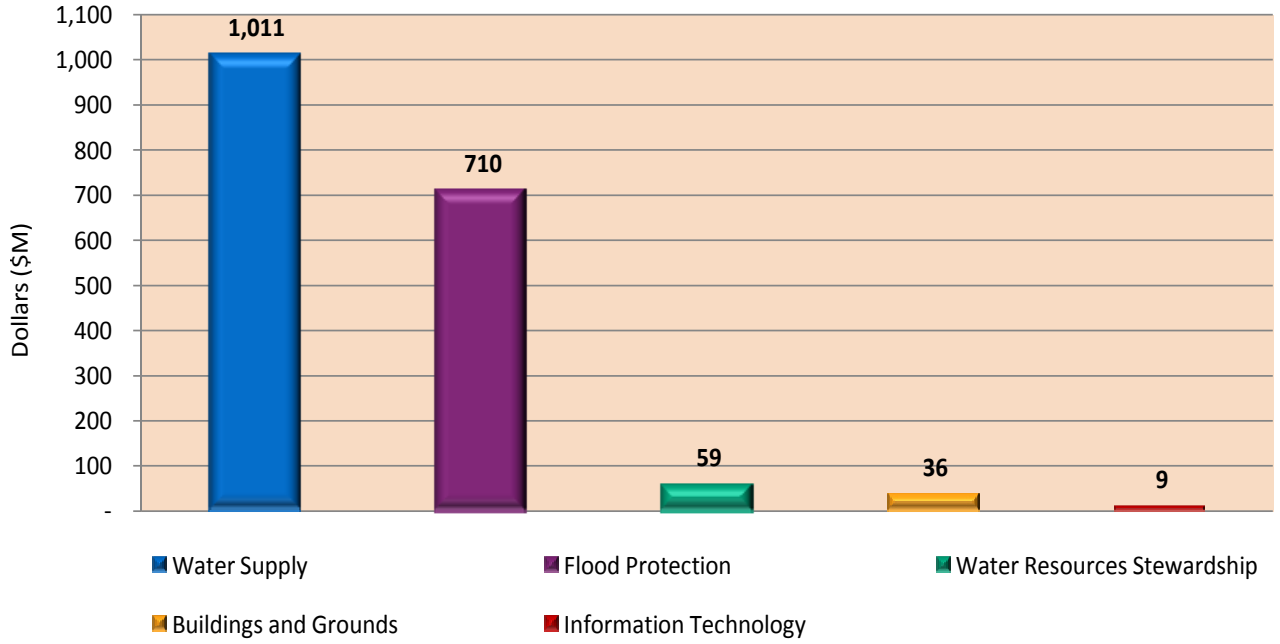
Appendix D - Summary of Capital Expenditures

Expenditure Schedule by Type of Improvement ($K)

	THRU FY11 (Actuals)	FY12	FY13	FY14	FY15	FY16	FY17	FY18	FY19	FY20	FY21	FY22	TOTAL
Water Supply	188,624	47,354	45,682	78,617	109,303	171,573	179,850	91,409	76,221	8,550	6,987	7,297	1,011,467
Flood Protection	347,138	90,862	32,114	135,031	68,070	25,036	5,941	5,507	296	57	59	60	710,171
Water Resources Stewardship	15,190	7,915	1,303	16,134	660	4,528	5,772	4,600	107	110	661	2,112	59,092
Buildings and Grounds	-	2,048	3,566	10,091	2,841	2,251	2,319	2,388	2,460	2,534	2,610	2,688	35,796
Information Technology	5,488	2,205	124	859	-	-	-	-	-	-	-	-	8,676
TOTAL	556,440	150,384	82,789	240,732	180,874	203,388	193,882	103,904	79,084	11,251	10,317	12,157	1,825,202

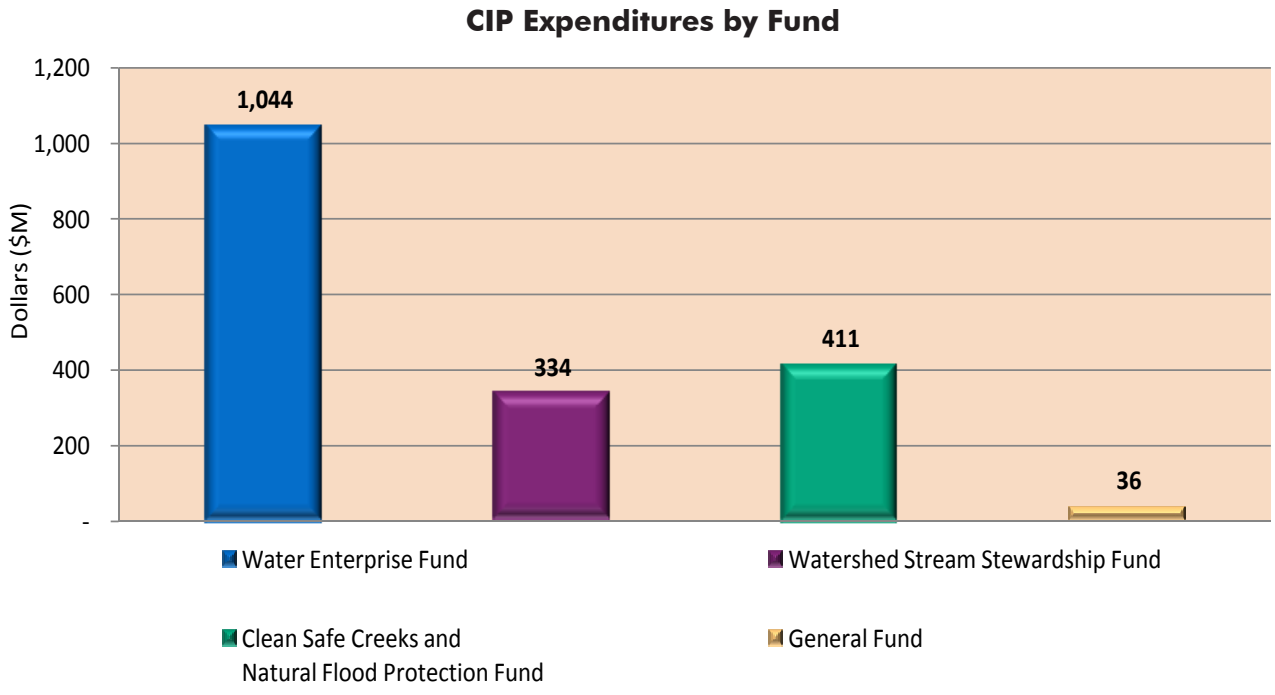
CIP Expenditures by Type of Improvement



Appendix D - Summary of Capital Expenditures

Expenditure Schedule by Fund ($K)

	THRU FY11 (Actuals)	FY12	FY13	FY14	FY15	FY16	FY17	FY18	FY19	FY20	FY21	FY22	TOTAL
Water Enterprise Fund	200,204	49,742	45,910	82,243	109,388	174,111	185,045	95,549	76,328	8,660	7,648	9,409	1,044,236
Watershed Stream Stewardship Fund	229,501	51,036	6,389	28,011	2,015	14,328	1,655	1,200	55	57	59	60	334,367
Clean Safe Creeks and Natural Flood Protection Fund	126,735	47,558	26,924	120,387	66,630	12,698	4,863	4,767	241	-	-	-	410,803
General Fund	-	2,048	3,566	10,091	2,841	2,251	2,319	2,388	2,460	2,534	2,610	2,688	35,796
TOTAL	556,440	150,384	82,789	240,732	180,874	203,388	193,882	103,904	79,084	11,251	10,317	12,157	1,825,202



Appendix E - Index of Projects by City/Town

Project List by City/Town

Page Number	Project Name	Supervisorial District(s)
Projects in the city of Campbell		
II-25	5-Year Pipeline Rehabilitation	1, 2, 3, 4, 5
VI-6	Microwave Telecommunications System	1, 2, 3, 4
II-21	San Tomas Well Field	4
II-45	Small Capital Improvements, Raw Water Transmission	1, 2, 3, 4, 5
Projectcts benefitting the city of Campbell		
II-53	IRP2 Well Fields	2, 3, 4, 5
VI-7	Radio Repeater System Infill	1, 2, 3, 4, 5
II-49	Stevens Creek Supplemental Water	1, 4, 5
II-79	Water Protection	1, 2, 3, 4, 5
Projects in the city of Cupertino		
II-25	5-Year Pipeline Rehabilitation	1, 2, 3, 4, 5
II-33	IRP2 Additional Line Valves	1, 3, 5
IV-23	Regnart Creek Stream Stabilization, Bubb to Stelling Rds.	5
II-45	Small Capital Improvements, Raw Water Transmission	1, 2, 3, 4, 5
II-47	Small Capital Improvements, Treated Water Transmission	1, 3, 4, 5
II-49	Stevens Creek Supplemental Water	1, 4, 5
Projectcts benefitting the city of Cupertino		
III-9	Calabazas Creek, Miller Avenue to Wardell Road	5
II-53	IRP2 Well Fields	2, 3, 4, 5
VI-7	Radio Repeater System Infill	1, 2, 3, 4, 5
III-11	Sunnyvale East and West Channels	3, 5
II-79	Water Protection	1, 2, 3, 4, 5
Projects in the city of Gilroy		
IV-7	CSC Soap Lake Floodplain Property Acquisition	1
III-31	Llagas Creek–Lower, Capacity Restoration, Hwy 152 to Pajaro River	1
II-85	South County Recycled Water Pipeline - Short-Term Implementation	1
Projectcts benefitting the city of Gilroy		
VI-7	Radio Repeater System Infill	1, 2, 3, 4, 5

Appendix E - Index of Projects by City/Town

Project List by City/Town

Page Number	Project Name	Supervisorial District(s)
Projects in the city of Los Altos		
II-25	5-Year Pipeline Rehabilitation	1, 2, 3, 4, 5
III-5	Permanente Creek, San Francisco Bay to Foothill Expressway	5
II-43	Pipeline Hydraulic Reliability Upgrades	1, 2, 3, 4, 5
Projectcts benefitting the city of Los Altos		
IV-17	FAHCE Stevens Creek Fish Passage Enhancement	5
II-53	IRP2 Well Fields	2, 3, 4, 5
VI-7	Radio Repeater System Infill	1, 2, 3, 4, 5
II-47	Small Capital Improvements, Treated Water Transmission	1, 3, 4, 5
II-79	Water Protection	1, 2, 3, 4, 5
Projects in the town of Los Altos Hills		
	None	
Projectcts benefitting the town of Los Altos Hills		
VI-7	Radio Repeater System Infill	1, 2, 3, 4, 5
II-79	Water Protection	1, 2, 3, 4, 5
Projects in the town of Los Gatos		
II-25	5-Year Pipeline Rehabilitation	1, 2, 3, 4, 5
IV-11	Dam Maintenance Mitigation	1, 5
II-51	IRP2 Seismic Study and Retrofit of WTP Ops Bldg	1, 3
II-37	Kirk Diversion Dam & Fish Screen Improvements	1
VI-6	Microwave Telecommunications System	1, 2, 3, 4
II-63	RWTP BL-1 Valve & Vault Replacement	1
II-65	RWTP FRP Primary Electrical System Improvement	1
II-67	RWTP FRP Residuals Management	1
II-69	RWTP Reliability Improvement	1
II-71	RWTP Standby Power System Upgrade	1
II-73	RWTP Treated Water Valves Upgrade	1
II-45	Small Capital Improvements, Raw Water Transmission	1, 2, 3, 4, 5
II-75	Small Capital Improvements, Water Treatment	1, 2, 3
II-79	Water Protection	1, 2, 3, 4, 5
II-81	WTP I/O Cards & Trunk Cable Upgrades	1, 3
Projectcts benefitting the town of Los Gatos		
II-53	IRP2 Well Fields	2, 3, 4, 5
VI-7	Radio Repeater System Infill	1, 2, 3, 4, 5
II-49	Stevens Creek Supplemental Water	1, 4, 5

Appendix E - Index of Projects by City/Town

Project List by City/Town

Page Number	Project Name	Supervisorial District(s)
Projects in the city of Milpitas		
II-25	5-Year Pipeline Rehabilitation	1, 2, 3, 4, 5
III-17	Berryessa Creek, Calaveras Boulevard to Old Piedmont Road	3
III-19	Berryessa Creek, Lower Penitencia Ck to Calaveras Blvd	3
III-25	Lower Penitencia Creek, Berryessa to Coyote Creeks.	3
III-35	San Francisco Bay Shoreline	3, 5
II-45	Small Capital Improvements, Raw Water Transmission	1, 2, 3, 4, 5
II-47	Small Capital Improvements, Treated Water Transmission	1, 3, 4, 5
II-75	Small Capital Improvements, Water Treatment	1, 2, 3
Projectcts benefitting the city of Milpitas		
VI-7	Radio Repeater System Infill	1, 2, 3, 4, 5
II-79	Water Protection	1, 2, 3, 4, 5
Projects in the city of Monte Sereno		
	None	
Projectcts benefitting the city of Monte Sereno		
VI-7	Radio Repeater System Infill	1, 2, 3, 4, 5
II-79	Water Protection	1, 2, 3, 4, 5
Projects in the city of Morgan Hill		
II-29	Cathodic Protection of USBR-Owned Pipelines	1
III-33	Llagas Creek–Upper, Buena Vista Road to Wright Avenue	1
VI-6	Microwave Telecommunications System	1, 2, 3, 4
II-45	Small Capital Improvements, Raw Water Transmission	1, 2, 3, 4, 5
Projectcts benefitting the city of Morgan Hill		
II-9	Anderson Dam Seismic Retrofit	1
II-39	Pacheco/Santa Clara Conduit Right of Way Acquisition	1
VI-7	Radio Repeater System Infill	1, 2, 3, 4, 5
II-85	South County Recycled Water Pipeline - Short-Term Implementation	1

Appendix E - Index of Projects by City/Town

Project List by City/Town

Page Number	Project Name	Supervisorial District(s)
Projects in the city of Mountain View		
II-25	5-Year Pipeline Rehabilitation	1, 2, 3, 4, 5
IV-17	FAHCE Stevens Creek Fish Passage Enhancement	5
III-5	Permanente Creek, San Francisco Bay to Foothill Expressway	5
II-43	Pipeline Hydraulic Reliability Upgrades	1, 2, 3, 4, 5
III-35	San Francisco Bay Shoreline	3, 5
Projectcts benefitting the city of Mountain View		
VI-7	Radio Repeater System Infill	1, 2, 3, 4, 5
II-47	Small Capital Improvements, Treated Water Transmission	1, 3, 4, 5
II-79	Water Protection	1, 2, 3, 4, 5
Projects in the city of Palo Alto		
II-43	Pipeline Hydraulic Reliability Upgrades	1, 2, 3, 4, 5
III-35	San Francisco Bay Shoreline	3, 5
III-7	San Francisquito Creek, San Francisco Bay through Searsville Dam	5
Projectcts benefitting the city of Palo Alto		
VI-7	Radio Repeater System Infill	1, 2, 3, 4, 5
Projects in the city of San Jose		
II-25	5-Year Pipeline Rehabilitation	1, 2, 3, 4, 5
II-27	Alamitos Diversion Dam Improvements	1
V-3	Almaden and Winfield Campus, Small Capital Improvements	1
IV-15	Alviso Slough Restoration Planning	3
III-17	Berryessa Creek, Calaveras Boulevard to Old Piedmont Road	3
III-9	Calabazas Creek, Miller Avenue to Wardell Road	5
II-11	Calero and Guadalupe Dams Seismic Retrofits	1
III-21	Coyote Creek, Montague Expressway to Interstate 280	2, 3
II-31	Coyote Diversion Dam Improvements	1
II-13	Dam Safety Program Seismic Stability Evaluation	1, 5
IV-19	Gold Street Educational Center	3
III-13	Guadalupe River–Downtown, Interstate 880 to Interstate 280	2
III-15	Guadalupe River–Upper, Interstate 280 to Blossom Hill Road	1, 2, 4
II-33	IRP2 Additional Line Valves	1, 3, 5
II-35	IRP2 Backup Raw Water Control Center at Almaden	1
II-51	IRP2 Seismic Study and Retrofit of WTP Ops Bldg	1, 3
II-53	IRP2 Well Fields	2, 3, 4, 5
III-23	Lake Cunningham Improvements	2

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Projects in the city of San Jose (cont'd)		
IV-9	Lk Almaden/Guad Riv/Alamitos Ck Restoration - Planning	1
III-27	Lower Silver Creek, I-680 to Cunningham (Reach 4-6)	2
VI-5	Microwave Telecommunications System	1, 2, 3, 4
IV-21	Ogier Ponds Separation from Coyote Creek	1
II-41	Penitencia Delivery Main/Force Main Seismic Retrofit	3
II-55	PWTP Clearwell Recoating & Repair	3
II-57	PWTP Maintenance Building	3
II-59	PWTP Washwater Clarification Facility	3
II-61	PWTP Water Pumps Modifications	3
III-35	San Francisco Bay Shoreline	3, 5
II-83	Silicon Valley Advanced Water Purification Center	3
II-45	Small Capital Improvements, Raw Water Transmission	1, 2, 3, 4, 5
II-47	Small Capital Improvements, Treated Water Transmission	1, 3, 4, 5
II-75	Small Capital Improvements, Water Treatment	1, 2, 3
II-77	STWTP Incompatible Materials	1
IV-25	Thompson Creek Stream Stabilization, Quimby Road to Aborn Road	3
III-29	Upper Penitencia Creek, Coyote Creek to Dorel Drive	3
II-79	Water Protection	1, 2, 3, 4, 5
V-5	Winfield Capital Improvements	1
II-81	WTP I/O Cards & Trunk Cable Upgrades	1, 3
Projectcts benefitting the city of San Jose		
II-9	Anderson Dam Seismic Retrofit	1
IV-11	Dam Maintenance Mitigation	1, 5
VI-3	ISMP Water Resource Information System	1
VI-7	Radio Repeater System Infill	1, 2, 3, 4, 5
Projects in the city of Santa Clara		
II-25	5-Year Pipeline Rehabilitation	1, 2, 3, 4, 5
Projectcts benefitting the city of Santa Clara		
VI-7	Radio Repeater System Infill	1, 2, 3, 4, 5
II-47	Small Capital Improvements, Treated Water Transmission	1, 3, 4, 5
II-79	Water Protection	1, 2, 3, 4, 5

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Projects in the city of Saratoga		
II-25	5-Year Pipeline Rehabilitation	1, 2, 3, 4, 5
III-9	Calabazas Creek, Miller Avenue to Wardell Road	5
II-33	IRP2 Additional Line Valves	1, 3, 5
II-45	Small Capital Improvements, Raw Water Transmission	1, 2, 3, 4, 5
II-47	Small Capital Improvements, Treated Water Transmission	1, 3, 4, 5
Projectcts benefitting the city of Saratoga		
II-53	IRP2 Well Fields	2, 3, 4, 5
VI-7	Radio Repeater System Infill	1, 2, 3, 4, 5
II-49	Stevens Creek Supplemental Water	1, 4, 5
II-79	Water Protection	1, 2, 3, 4, 5
Projects in the city of Sunnyvale		
IV-17	FAHCE Stevens Creek Fish Passage Enhancement	5
II-43	Pipeline Hydraulic Reliability Upgrades	1, 2, 3, 4, 5
III-35	San Francisco Bay Shoreline	3, 5
III-11	Sunnyvale East and West Channels	3, 5
Projectcts benefitting the city of Sunnyvale		
VI-7	Radio Repeater System Infill	1, 2, 3, 4, 5
II-47	Small Capital Improvements, Treated Water Transmission	1, 3, 4, 5
II-79	Water Protection	1, 2, 3, 4, 5
Projects in the Unincorporated areas of the County		
II-25	5-Year Pipeline Rehabilitation	1, 2, 3, 4, 5
II-27	Almaden Dam Outlet Works Improvements	1
II-9	Anderson Dam Seismic Retrofit	1
II-11	Calero and Guadalupe Dams Seismic Retrofits	1
II-29	Cathodic Protection of USBR-Owned Pipelines	1
IV-7	CSC Soap Lake Floodplain Property Acquisition	1
IV-11	Dam Maintenance Mitigation	1, 5
II-13	Dam Safety Program Seismic Stability Evaluation	1, 5
IV-5	Jacques Gulch Restoration	1
II-15	Lenihan Dam Outlet Modifications	1
III-31	Llagas Creek–Lower, Capacity Restoration, Hwy 152 to Pajaro River	1
III-33	Llagas Creek–Upper, Buena Vista Road to Wright Avenue	1
VI-5	Microwave Telecommunications System	1, 2, 3, 4
IV-21	Ogier Ponds Separation from Coyote Creek	1

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Page Number	Project Name	Supervisorial District(s)
Projects in the Unincorporated areas of the County (cont'd)		
II-39	Pacheco/Santa Clara Conduit Right of Way Acquisition	1
III-5	Permanente Creek, San Francisco Bay to Foothill Expressway	5
II-43	Pipeline Hydraulic Reliability Upgrades	1, 2, 3, 4, 5
II-85	South County Recycled Water Pipeline - Short-Term Implementation	1
III-35	San Francisco Bay Shoreline	3, 5
III-7	San Francisquito Creek, San Francisco Bay through Searsville Dam	5
II-45	Small Capital Improvements, Raw Water Transmission	1, 2, 3, 4, 5
II-23	Small Capital Improvements, San Felipe Reach 1-3	1
II-47	Small Capital Improvements, Treated Water Transmission	1, 3, 4, 5
II-77	STWTP Incompatible Materials	1
II-49	Stevens Creek Supplemental Water	1, 4, 5
III-29	Upper Penitencia Creek, Coyote Creek to Dorel Drive	3
Projectcts benefitting the Unincoprporated areas of the County		
	None	
Projects located outside of the County		
II-29	Cathodic Protection of USBR-Owned Pipelines	
II-17	Pacheco Pumping Plant ASD Replacement	
II-19	San Luis Reservoir Low Point Improvement	

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Ad Valorem Tax
A tax based on value (e.g., a property tax).

Appropriation
An appropriation is a legal authorization grated by the Santa Clara County Board of Supervisors which allows the District to expend cash and incur obligations for specific purposes. An appropriation is usually limited in amount and the time it may be expended.

Assessment
The process of setting the official valuation of property for taxation; the valuation placed upon property as a result of this process.

Asset
A probable future economic benefit obtained or controlled by a particular entity as a result of past transactions or events. Examples of assets are cash, receivables, and equipment.

Benefit Assessment
Determination of the benefits derived from District activities within particular watersheds and levying a proportionate share of taxes to each parcel subject to voter-approved limitations.

Bonds
Bonds are a long-term source of debt that provides a source of borrowed monies that can be used to pay for specific capital facilities. Bonds are a written promise to pay a specified sum of money at a predetermined date or dates in the future, called the maturity date(s), together with periodic interest at a specific rate.

Capital Expenditure
Capital expenditures fall into several categories. In general, they should create assets or extend the useful lives of existing assets. The work product results in a long-term benefit greater than two years and for budgeting purposes involved a major expenditure of district resources greater than $50,000. They can be made with regard to tangible and intangible assets. The general categories of capital expenditures are: rehabilitation, major repairs, improvements/ betterments/ upgrades, replacements, expansions/ additions, and ancillary expenditures.

Capital Projects
Projects are budgeted within the Capital budget and fall within the definition of Capital Expenditures; which means they (1) create or extend the life of an asset, (2) their work products have a useful life of greater than two years, and (3) they involve an expenditure of District resources in excess of $50,000.

Certificates of Participation (COPs)
A security in the general form of a bond, which evidences a proportionate participation in a flow of lease or other payments between two parties.

CEQA
California Environmental Quality Act

CIP
Capital Improvement Plan

Corp
U.S. Army Corp of Engineers

Cost Center
Cost Centers are separate financial accounting centers in which costs are accumulated because of legal and accounting requirements, the first two digits of a project number identifies the cost center.

CSC
Clean, Safe Creeks Program

DWR
State Department of Water Resources

EIR
Environmental Impact Report

Encumbrances
Commitments related to unperformed (executory) contracts for goods or services. Encumbrances represent the estimated amount of expenditures that will result if unperformed contracts in process are completed.

Enterprise Fund
Enterprise Funds are used to account for operations including debt service (a) that are financed and operated in a manner similar to private business, where the intent of the government body is that the costs (expenses, including depreciation) of providing goods or services to the general public on a accounting basis is financed or recovered primarily though user charges; or (b) where the governing body has determined that periodic determination of revenues earned, expenses incurred, and/or net income is appropriate for capital maintenance, public policy, management control accountability, or other purposes.

EPL
East Pipeline

Expenditure/Expense
Decreases in net financial resources. Expenditures include current operating expenses requiring the present or future of net current assets, debt service and capital outlays, and intergovernmental grants, entitlements, and shared revenues. The major expenditure categories used by the District are labor and overhead, land and structures, equipment, and debt service.

Facility
Defined as a creek, reservoir, dam, water treatment plant, pipeline, canal, etc.

FAHCE
Fishery and Aquatic Habitat Collaborative Effort

FCA
Flanged Coupling Adaptor

Fixed Assets
Fixed Assets are defined as long-lived tangible assets such as automobiles, computers and software, furniture, communications equipment, hydrologic equipment, office equipment, and other equipment, with a value of $2,000 or more, or the combined value of like ore related units (aggregate value) is greater than $5,000 if the unit value is less than $2,000.

Fiscal Year
A 12-month period to which the annual operating budget applies and at the end of which a government determines its financial position and the results of its operations. The District's fiscal year is July 1 through June 30.

Fund
A fiscal and accounting entity with a self-balancing set of accounts in which cash and other financial resources, all related liabilities and residual equities, or balances, and changes therein, are recorded and segregated to carry on specific activities or attain certain objectives in accordance with special regulations, restrictions or limitations.

General Fund
A fund used to account for major operating revenues and expenditures, except for those financial transactions that are required to be accounted for in another fund. General Fund revenues are derived primarily from property and other taxes.

Grants
Contributions or gifts of cash or other assets from another government entity to be used or expended for a specified purpose, activity, or facility.

ISMP
Information Systems Master Plan

Levy
(1. Verb) To impose taxes, special assessments, or service charges for the support of government activities; (2. Noun) The total amount of taxes, special assessments, or service charges imposed by a government agency.

Long-Term Debt
Debt with a maturity date of more than one year after the date of issuance.

NEPA
National Environmental Policy Act

One Percent Flood or 100 Year Flood
Has a 1% chance of occuring in a given year. Water District projects are usually designed for the 1% flood, a national standard established by the Federal Emergency Management Agency (FEMA).

Operating Expenditure
Operating expenditures are system costs required for the daily process of providing water and watershed management services, including the administrative and overhead costs to support these services.

Operating expenditures are costs necessary to maintain the systems in good operating condition. This includes the repair and replacement of minor property components. The American Waterworks Association (AWWA) says that these priority components should be smaller than a retirement unit; a retirement unit is a readily separable and separately useful item that is part of a larger assembly. The benefit and life of such repairs should be less than two years. Any repairs that recur on an annual basis are considered operating activities of a maintenance nature.

Operating expenditures are often separated into fixed and variable costs for purposes of under standing operating leverage and structuring service charge rates.

Operations
Expenditures required for the daily process of providing water and watershed management services, including the administrative and overhead costs to support these services. Operations include work that is generally of an ongoing or recurring nature. Any District work that is not a project is, by definition, an Operation. Operations, although recurring, require close coordination and a high degree of management oversight; however, they can be accomplished without the application of the full range of tools and processes used for managing projects.

Projects
At the Santa Clara Valley Water District, a project is any undertaking which has (1) a beginning and an ending, (2) a one-time occurrence. Projects can require expenditure of capital or operating funds and, at the District, are called Capital or Operating Projects, accordingly. Project usually, but no always, relate to a District facility or facilities (a creek, a reservoir, a dam, a water treatment plant, a pipeline,, etc.). Projects may include studies, design, construction, maintenance, or implementation of systems such as Records Management or Financial Management System.

Revenue
Monies the District receives in exchange for services or sales provided. Revenue items include water sales, property tax revenues, benefit assessment revenues, interest income, intergovernmental reimbursement, and other.

Revenue Bonds
Bonds, whose principal and interest are payable exclusively from earnings of an enterprise fund. In addition to a pledge of revenues, such bonds sometimes contain a mortgage on the enterprise fund's property.

Reserve
An account used to indicate that a portion of a fund's assets are legally restricted for a specific purpose and is, therefore, not available for general appropriation.

SMP
Stream Maintenance Program

SOW
Scope of work

USACE
U.S. Army Corp of Engineers

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